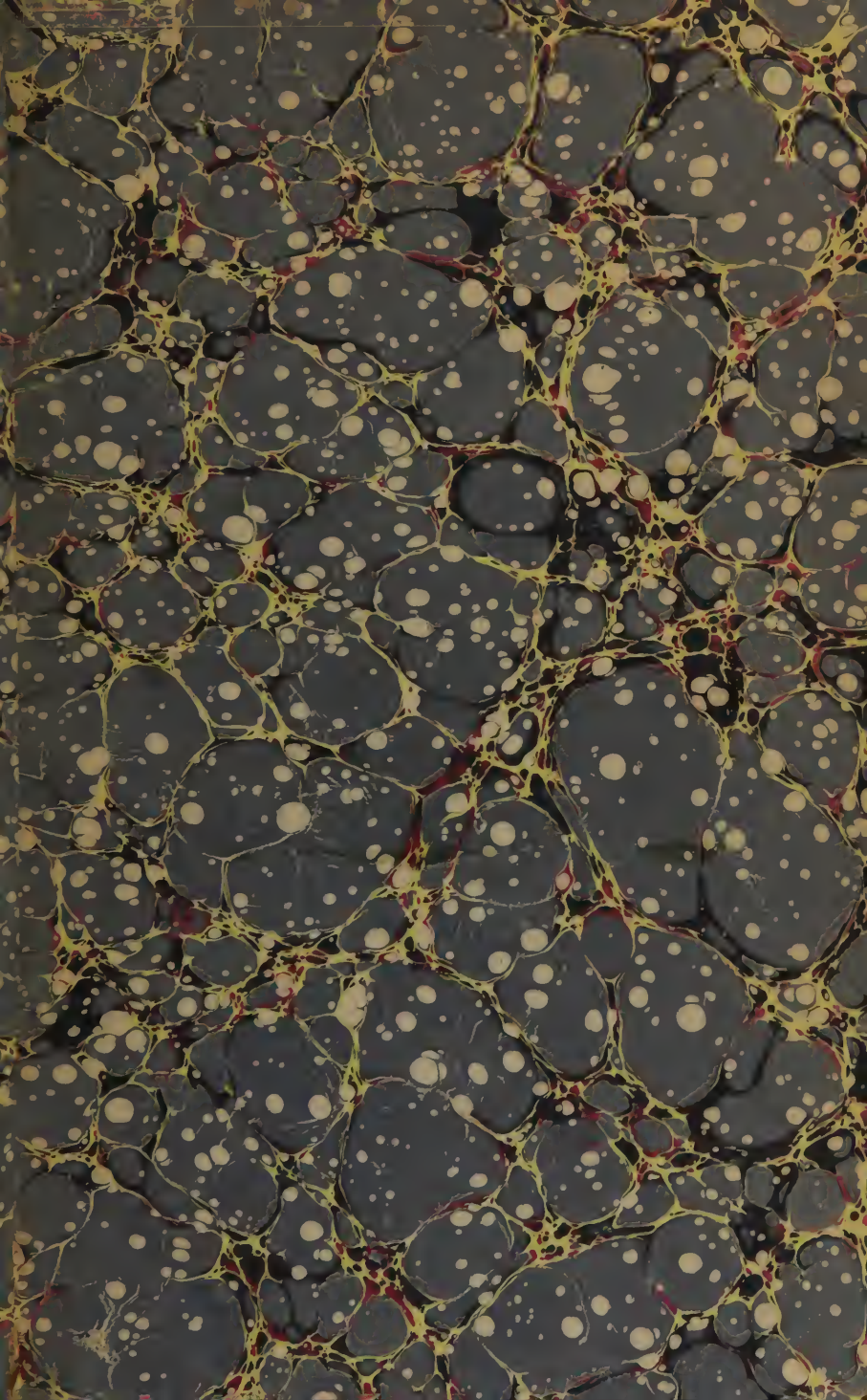


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A

SYNOPSIS

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OF THE

FLORA OF THE WESTERN STATES.

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30277

E. DEMING, CINCINNATI.

1835.

1728

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SYNOPSIS

OF THE

**FLORA OF THE WESTERN STATES.**

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PREFATORY REMARKS.

The region to which this synopsis or catalogue is intended to apply, extends from the Alleghany mountains in West Virginia, to the Platte river in Missouri Territory; and from the southern boundary line of Tennessee, to the latitude of Detroit. It embraces Ohio, Indiana, Illinois, Kentucky, West Tennessee and Missouri; a small part of Virginia and Pennsylvania, and of the Michigan, North West, and Missouri territories. There are large tracts of country within these limits whose vegetable productions have not yet been examined by botanists;—even in the immediate neighborhood of populous towns and cities much remains to be done. Judging from available information, it would seem that the botany of Ohio and Kentucky has been most satisfactorily determined. The Kentucky plants are given almost exclusively in the authority of Dr. Short; those of Ohio unless otherwise accredited, have been personally observed and collected by the writer. The regions about St. Louis, on either side of the Mississippi, have been very successfully explored by Dr. L.

### *Prefatory Remarks.*

.. Beck, whose communications on the subject may be found in Silliman's Journal.

We are chiefly indebted to the eminent naturalist Mr. Nuttall for our knowledge of the botany of Missouri territory: though the researches of Mr. Bradbury and Dr. James have aided very materially. The author regrets that he has been unable to obtain definite and satisfactory knowledge in regard to the productions of Tennessee. Perhaps enough has been gleaned however, from the writings of Pursh and Nuttall, to apologise for not excluding that state.

It has for several years been the author's design, to publish a Flora of the Western States, when he shall have accumulated a sufficiency of materials; and he takes this opportunity of soliciting information from those who may choose to favour him with their correspondence, and of proposing an interchange of botanical specimens with all who may wish to form collections. The following catalogue though necessarily incomplete, will probably aid in effecting the desired object, by exhibiting its present state of advancement, thereby enabling observers located in different sections of the assumed territory, the more easily to make additions to it.

Among the scientific gentlemen residing in the West, to whom the student in botany can refer with advantage, may be mentioned Dr. C. W. Short, Dr. R. Peter, and Mr. H. J. Griswold of Lexington Ky.; Dr. D. Houghton of Detroit Mich.; Dr. T. Townsend, Wheeling Va.; Mr. J. R. Paddock, Worthington, Ohio; Mr. J. W. Van Cleve, Dayton, Ohio; Dr. J. Eberle, Dr. J. Locke, Dr. Colby, Dr. Frank and Mr. R. Buchanan of this city.

The nomenclature here adopted, is in general accordance with the sixth edition of Eaton's manual. This observation is made in order to dispense as far as possible with the citation of authority. The philosophic method of Prof. Lindley is observed in the arrangement:—the reader is doubtless aware that the natural system of botany as it is called, aims to ag-group plants according to their affinities, or general resemblances.



## Prefatory Remarks.

Botanists consider the vegetable world as made up of two great divisions, which have been denominated *Vasculares* and *Cellulares*. They differ from each other in their intimate organization and in their modes of reproduction. The *vascular* division embracing all the true flowering plants, is characterized by the presence of minute tubes, formed by the coiling of the vegetable fibre in a spiral manner, and hence called spiral vessels. The *Cellulares* are destitute of spiral vessels.

The *Vasculares* are constituted by two great and well marked classes;—the *exogenæ* and the *endogenæ*. The *exogenæ* if perennial, have their vessels and cellules disposed in concentric cylinders; they possess bark and pith, and increase by annual depositions of new matter between the bark and wood, as well as by the protrusion and development of buds; as the oak, the rose, the milkweed. *Endogenous* plants have neither pith nor bark. Their vessels are irregularly disposed in fasciculi and surrounded by cellular tissue. While the trunk or stem remains soft and distensible, it may enlarge by the formation of new substance interiorly; but after it becomes indurated, the magnitude of the plant is increased solely by the development of the terminal bud or buds; as is exemplified in the palms, canes and grasses.

The grand division *Cellulares*, corresponds pretty closely with the *Cryptogamia* of Linnæus. It comprises the flowerless plants, which are alike destitute of spiral vessels and of the true vegetable fibre. Some of them, as the simpler fungi, appear to consist wholly of membranous vesicles, which like soap bubbles in a phial, by their contiguity and mutual pressure become hexagonal cells. The mosses, lichens, algæ, and the more highly developed fungi, though seemingly more complex in their structure, have nothing it is asserted but the cellular tissue in their composition. Besides innumerable contiguous cellules which are common to all vegetables, the ferns, horsetails and ground pines possess membranous tubes, very similar to the reducent vessels which traverse the inner bark of trees.

## CHARACTERS AND ABBREVIATIONS EXPLAINED.

### *Time of flowering.*

Ap. April.	Aug. August.
M. May.	Sept. September.
Ju. June.	Oct. October.
Jul. July.	

### *Colour of the flower.*

r. Red.	p. Purple.	y. Yellow.
w. White.	b. Blue.	g. Green.

### *Height of the plant.*

1 f. One foot.	2 i. Two inches.
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### *Duration &c.*

☉ Annual.	‡ Biennial.	4 Perennial.	‡ Woody.
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### *Particular Situations.*

dp. Dry prairies.	rd. Road sides.
wp. Wet prairies.	rs. Rocky situations.
mh. Marshes.	sr. Slaty ravines.
pl. Standing pools.	cr. Calcareous ravines.
rb. Denuded river banks.	ow. Open woods.
bt. Bottom lands.	sw. Dense & shady woods.
md. Meadows.	br. The bed of rivulets.
cf. Cultivated fields.	bg. Shaking bogs.

### *Localities.*

O. Ohio.	Mar. Marietta, O.
Ky. Kentucky.	Col. Columbus, O.
Ia. Indiana.	Wor. Worthington, O.
Ill. Illinois.	Cin. Cincinnati, O.
Mich. Michigan.	Mi. Miami country, O.
Tenn. Tennessee.	Plt. Platte river, Mo. Ter.
Ark. Arkansas.	C. Bl. Council Bluffs.
Mo. Missouri.	St. L. St. Louis.
Mo. Ter. Missouri Ter.	Miss. Mississippi river.
W. Western States.	Intr. Introduced.

### *By whom observed.*

Nutt. Nuttall.	Bk. Beck.	St. Short.	Jas. James.
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## VASCULARES.

### CLASS I.—EXOGENÆ.

TRIBE I.—ANGIOSPERMÆ.—Seeds in some kind of covering.

DIVISION 1. Flowers with many petals or none.

#### ORDER I. ARALIACEÆ.—THE GINSENG TRIBE.

1. *Aralia spinosa*. Angelica tree, Shot bush.  
Aug. w. 10f. ½. sw. Ky. St. Miss. Bk. Stimulant diaphoretic, emetic and cathartic if recent.
2. *A. racemosa*. Spikenard. Aug. w. 4f. ¼. ow. W. Healing, pectoral, stimulant and diaphoretic.
3. *A. nudicaulis*. False sassaparilla, Jul. g. 1½f. ¼. ow. Mar. O. Stimulant, diaphoretic, alterative. Raf. Med. Flor. i. 33.
4. *Panax quinquefolia*, Ginseng, Ju. g. 1f. ¼. ow. W. Warming and invigorating stomachic.
5. *P. trifolia*, Dwarf ground nut. May. w. 4i. ¼. ow. Wor. O. Root spherical, nutritious.

#### II. UMBELLIFERÆ.—THE UMBELLIFEROUS TRIBE.

6. *Erigenia bulbosa*, Nutt. Turkey pea.  
March. Ap. rw. 4i. ¼. ow. W. Root similar to No. 5.
7. *Sanicula marilandica*, Indian sanicle, often called black snakeroot. Jul. g. w. 2f. ¼. ow. W. Diaphoretic, stimulant, stomachic.
8. *Eryngium aquaticum*. Button snakeroot. Aug. w. b. 3f. ¼. wp. Darby Plains, O. Diaphoretic, expectorant.
9. *E. ovalifolium*. Sea holly. Jul. b. 2f. ¼. Near the Yellow Springs, N. Longworth Esq.
10. *Cicuta maculata*. Water Hemlock. Jul. Aug. w. 4f. mh. md. O. Ky. Narcotic. Big. Med. Bot. i. 125.
11. *C. bulbifera*. Bulb-bearing water hemlock. Aug. w. 3f. ¼. mh. O.
12. *Sium latifolium*. Water parsnip. Jul. w. 3f. mh. W.
13. *S. tricuspdatum*. Jul. 3f. mh. St. L. Bk.
14. *Archemora rigida*, De Cand. Sept. w. 3f. mh. wp. O.
15. *A. ambigua*, De Cand. Aug. w. 4f. ¼. Sandy Swamps. Mich. Gray.
16. *Zizia cordata*. Alexanders. May. y. 2f. ¼. sr. O.
17. *Z. aurea*. Meadow parsnip. June. y. 1–3f. ¼. sr. O.
18. *Z. integerrima*. June. y. 1–2f. ¼. rs. W.
19. *Thapsia trifoliata*. y. 3f. bt. St. L. Bk.

20. *Ligusticum actæifolium*. Jul. 4. dp. 3f. O.
21. *Angelica triquinnata*. Archangel. Aug. w. 3f. 4 dp. O.  
Aromatic, tonic.
22. *A. atropurpurea*. Masterwort. June. w. 5f. 4. bt. Wor.  
O. Stimulant, conservative, antilithic.
23. *A. lucida*. Jul. w. 2f. 4. dp. (sw. *Bk.*) O. Aromatic root.
24. *Heracleum lanatum*. Cow parsnip. Masterwort. June.  
w. 5f. md. Ky. *St.* Stimulant, carminative. Wood  
and Bache, Disp. 335.
25. *H. spondylium*. ♂. Mo. Ter. *Null.* Grand riv. *Jas.*
26. *Ferula fœniculacea*. May. y. If. 4. Grand river. *Jas.*
27. *F. villosa*. Jul. w. 4. Louisville. *MMurtrie.*
28. *Pastinaca sativa*. Parsnip. Jul. 3f. y. ♂. cf. Introduced.
29. *Uraspermum claytoni*. Sweet cicely. June. w. 2f. 4.  
sw. W. The root is very fragrant and of a fine  
flavor, nearly resembling paregoric.
30. *U. hirsutum*. Hairy cicely. Poison cicely. June. w. 14f.  
4. sw. W.
31. *Myrrhis canadensis*, *Null.* Canadian cicely. June. w.  
4. ow. O.
32. *Chærophyllum procumbens*, *Null.* Dwarf cicely. May. w.  
10i. 4. bt. ow. O. Root fragrant.
33. *Seseli divaricatum*. May. y. Gi. 4 rb. Missouri river. *Null.*
34. *Conium maculatum*. Poison hemlock. Cicuta. Jul. w. 4f.  
4. rd. W. Probably introduced. Narcotic. Big.  
Med. Bot. i. 113. Raf. Med. Fl. i. 118.
35. *Daucus carota*. Wild carrot. Jul. w. 2f. 4. md. Old  
fields. Hardly yet naturalized. Excitant, diuretic.

### III. RANUNCULACEÆ.—THE CROW FOOT TRIBE.

#### I. CLEMATIDÆ.—*Virgin bower like.*

36. *Clematis virginica*. Virgin's bower. Aug. w. Vine. 4.  
ow. rs. W.
37. *C. viorna*. Leather flower. Jul. Flowers violet. Vine.  
4. ow. md. Wor. Mi. O.
38. *C. reticulata*. Jul. p-r. 4. Vine. Ky. *St.* *St.* L. *Bk.*

#### II. ANEMONÆ.—*Windflower-like.*

39. *Anemone virginiana*. Wind flower. Jul. w. 14f. 4.  
md. ow. W.
40. *A. aconitifolia*. Wolf bane wind flower. Jul. w. 1f.  
4. md. W.
41. *A. nemorosa*. Low anemone. Ap. Gi. w. 4. ow. W.
42. *A. ludoviciana*. Ap. r-b. 4. Mo. Ter. *Null.* *Jas.*
43. *A. tenella*, *Pursh.* March. w. 4. Plt. *Jas.*

44. *Thalictrum dioicum*. Meadow rue. Ap. w. 2f. 4. md. sr. W.
45. *T. corynellum*. Jul. w. 4f. 4. W.
46. *T. ranunculinum*. Ky. St.
47. *T. cornuti*. Prairie rue. Jul. g-y. 4f. 4. wp. O.
48. *T. rugosum*. Swamp rue. Aug. w. 5f. 4. Swamps. West Virg.
49. *T. revolutum*. Aug. w. 2½f.—3f. 4. Mar. O.
50. *T. anemonoides*. Michx. Rue leaved anemone. Ap. w. 6i. 4. ow. W.
51. *Hydrastis canadensis*. Yellow puccoon. Ohio curcuma. Yellow root. May. r-w. 8—10 i. 4. sw. W. Stimulant, tonic, detergent. Bart. Med. Bot. ii. 17.
52. *Hepatica acutiloba*. Liver-leaf. Ap. w-p. 3i. 4. sw. W. Medicinal. See No. 53.
53. *H. americana*. Blunt lobed liver-leaf. Ap. w. 3i. 4. sw. Wor. O. Demulcent, astringent, diuretic, deobstruent.

### III. RANUNCULÆ.—Crow foot like.

54. *Ranunculus flammula*. Small spearwort. Jul.—Sept. y. 1½f. 4. mh. W. Acrid, rubefacient, vesicatory.
55. *R. pennsylvanicus*. Jul. y. 1½f. 4. Wet meadows, O.
56. *R. abortivus*. Ju.—Aug. y. 1f. 4. br. mh. O. Ky.
57. *R. fascicularis*. Fascicle rooted butter cup. May. y. Woods. W.
58. *R. recurvatus*. Small flowered butter cup. Ap. Pale y. 1f. 4. ow. West Va. Cin. Wor. O. Medicinal. See No. 51.
59. *R. lanuginosus*. Ju. y. 4. Wor. O.
60. *R. pusillus*. Jul. pale y. 10 i. 4. Wet grounds. Mich. Houghton.
61. *R. hispidus*. Hairy crow foot. Jul. y. 18 i. 4. Wet grounds. W. Bk.
62. *R. filiformis*. Michx. Thread form crow foot. Ju. w-y. Creeping. 4. Mich. Houghton.
63. *R. lucustris*. Bk. Water crow foot. Lake crow foot. June. y. Creeping. 3—4 feet long. 4. mh. pt. Herculaneum. Mo. Bk. Darby Plains, O.
64. *R. collinus*. Ap. 2 i. wp. Fort Clark. Bk.
65. *R. bulbosus*. Butter cups. Jul. y. 1f. 4. md. Cin. O. Eberle. Louisville, M. Murtrie. Medicinal. See species 54. Big. Med. Bot. iii. 61.
66. *R. repens*. June—Sept. y. 1—2 f. 4. Wet md. Louisville, M. Murtrie. Medicinal. See Disp. of Wood and Bachc, 525.
67. *Myosurus Shortii*. Mousetail. O. Ky. Raf.



IV. HELLEBORNEÆ.—*Hellebore like.*

68. *Caltha palustris*. Marsh marigold. American cowslip. Cowslops. April. *y.* 8—12 i.  $\frac{1}{4}$ . mh. O. Herbage boiled for "greens" before flowering.
69. *Trollius americanus*, *Muhl.* Globe flower. June. *y.* 1f.  $\frac{1}{4}$ . Wet grounds. W. *Bk.*
70. *Coptis trifolia*. Gold thread. Jul. *w.* 4—6 i.  $\frac{1}{4}$ . Swamps. Louisville, *MMurtrie*. Tonic. Big. Med. Bot. i. 60. Raf. Med. Fl. i. 27.
71. *Isopyrum thalictroides*, *Lin.* Enemion biternatum, *Raf.* Ap. *w.* 8 i.  $\frac{1}{4}$ . ow. Ky. O. Resembles Sp. 50 closely.
72. *Aquilegia canadensis*. Wild columbine. Ap. *y.*—*r.* 2f.  $\frac{1}{4}$ . rs. Ky. O.
73. *Delphinium tricorne*. Stagger weed. Three horned larkspur. May. *b.* 1 f.  $\frac{1}{4}$ . ow. sw. O.
74. *D. azureum*. Azure larkspur. May. *b.* 2 f.  $\frac{1}{4}$ . ow.—Near Wheeling.
75. *D. exaltatum*. Tall larkspur. June. *b.* 3 f.  $\frac{1}{4}$ . dp. O. Diuretic, emetic, cathartic. Wood & Bache Disp. 269.
76. *D. virescens*. *g*—*w.* 8—12 i.  $\frac{1}{4}$ . Plains on the Missouri river. *Nutt.*
77. *D. consolida*. Larkspur. June. *b.* 2 f. O. Introduced. Medicinal, See sp. 75.
78. *Aconitum, uncinatum*. American wolfsbane. Sept. *p.* Twining.  $\frac{1}{4}$ . Preston Glades. West Va. *Paddock.*

V. PÆONÆÆ.—*Allied to the garden peony.*

79. *Macrotys racemosa*. Black snakeroot. Black cohosh. Jul. *w.* 5 f.  $\frac{1}{4}$ . ow. W. Tonic, secernant stimulant, abortivant, mildly astringent.
80. *Actæa alba*. White cohosh. Necklace weed. May. *w.* 18 i.—2 f.  $\frac{1}{4}$ . sw. W. Medicinal, similar to sp. 79.
81. *Xanthorhiza apiifolia*. Yellow root. May. *p.* 2—3 f.  $\frac{1}{2}$  Louisville, *MMurtrie*. Ohio banks, *Nutt.* Tonic bitter. Bart. Med. Bot. ii. 203.

## VI. PAPAVERACEÆ.—THE POPPY TRIBE.

82. *Chelidonium majus*. Celandine. May—Oct. *y.* 15i. rd. Near Johnstown, O. Introduced. Acrid, stimulant, detergent, diuretic.
83. *Meconopsis diphylla*. Western celandine. May. *y.* 1f.  $\frac{1}{4}$ . Woods. W. Closely resembles sp. 82, for which it may doubtless be substituted.
84. *M. petiolata*. June. *y.*  $\frac{1}{4}$ . Lead mines, Mo. *Jas.*

85. *Sanguinaria canadensis*. Blood root. Puccoon. Ap. *w*.  
4 i. 4. bt. cr. W. Emetic, stimulant, narcotic.—  
Big. Med. Bot. i. 75. Bart. Med. Bot. i. 31.  
86. *Argemone mexicana*. Prickly poppy. Jul. *y*. or *w*.  
2—3 f. ☉. Banks of streams. Plt. Jas. W. *Bk*.

V. *NYMPHÆACEÆ*.—THE WATER LILY TRIBE.

87. *Nymphaea odorata*. White pond lily. June, Jul. *w*.  
Floating. 4. pl. O. Mich. Slightly astringent.  
88. *Nuphar advena*. Water lily. June. *y*. Floating or erect.  
4. pl. O. Properties similar to the last.  
89. *N. lutea*, *Smith*. Yellow pond lily. Jul. *y*. Floating.  
4. Big Miami, O. Slightly astringent.

VI. *NELUMBONEÆ*.—THE LOTUS TRIBE.

90. *Nelumbium luteum*. Water chinquapin. Chinaquapin  
lily. Sacred bean. Jul. *w*.—*y*. Generally floating.  
4. pl. O. Cin. Pickaway Plains. Mo. Ter. *Jas*.

VII. *HYDROPELTIDEÆ*.

91. *Hydropeltis purpurea*. Water target. Jul. *p*. Floating.  
4. pl. St. L. *Bk*. Demulcent, &c. Raf. Med. Fl. i.  
92. *Flærkea uliginosa*. False mermaid. Ap. *w*. ☉. mh.—  
Ky. *St*.

VIII. *PODOPHYLLEÆ*.—THE MAY APPLE ORDER.

93. *Podophyllum peltatum*. May apple. Mandrake. May.  
*w*. 1 f. 4. ow. W. Cathartic. Big. & Bart. Bot. &c.  
94. *Jeffersonia diphylla*. Twin leaf. Rheumatism root. M.  
*w*. 1 f. 4. sw. W. Stimulant, diaphoretic, anti-rheu-  
matic, anti-spasmodic. Chronic rheumatism especially.  
*Dr. I. G. Jones*.

IX. *CRUCIFERÆ*.—THE CRUCIFEROUS ORDER.

It may be remarked, that the Cruciferæ universally possess antiscorbutic and stimulant qualities, combined with a flavour more or less acrid.

95. *Cheiranthus asper*, *Nutt*. June. *y*. 12—18 i. ♂. Plains  
of the Missouri, near White river. *Nutt*.  
96. *Nasturtium officinale*, *Brown*. Water cress. Jul. *w*.  
Stem decumbent. 4. In water. W. *Bk*. A sallad.  
97. *N. palustre*, *De Cand*. Marsh water cress. Jul. *y*. 18 i.  
☉. mh. W.  
98. *N. amphibium*, *Brown*. Jul. *y*. 1—2 f. 4. mh. O. W.  
Amphibious cress.

99. *Barbarea vulgaris*. Bitter winter cress. June. *y.* 12—18 i. 4. Fields. O. Ky.
100. *Arabis rhomboidea*. Spring cress. May. *w.* 10—12 i. 4. Woods. O. Ky.
101. *A. hirsuta*. Hairy tower mustard. June. *w.* 6—12 i. ♂. rs. bt. Upper Mississippi, *Houghton*. O.
102. *A. lævigata*. Smooth tower mustard. May. *w.* 1—2 f. rs. Wor. Cin. O.
103. *A. canadensis*. Sickly pod. June. *w.* 1—2 f. rs. W.
104. *A. thaliana*. Mouse ear cress. Common wall cress. Ap. *w.* 2—8 i. O. Ky. *St.*
105. *A. lyrata*. Ap.—June. *w.* 8—12 i. ♂. Fields and hills. West Va. *Paddock*. N. W. Ter. *Houghton*.
106. *Cardamine virginica*. American water cress. May—Jul. 6—18 i. O. br. mh. O. Ky.
107. *C. rotundifolia*. Round leaved cress. Jul. *w.* 12—15 i. 4. Wet grounds. Ky. *St.*
108. *C. uniflora*. Single flowered cress. Ky. *St.*
109. *Dentaria diphylla*. Tooth root. Trickle. Pepper root. May. *w.* 8 i. 4. sw. Cin. O. Ky.
110. *D. laciniata*. Jagged leaved tooth root. May. pale *w.* 8 to 12 i. 4. sw. W.
111. *D. heterophylla*. Dwarf tooth root. Ju. pale *p.* 2 to 4 i. 4. Woods. West Penn. *Nutt.* West Va. *Paddock*.
112. *Alyssum dentatum*. May. *w.* 6 i. 4. rs. Ky.
113. *A. ludovicianum*. Ap. *y.* 4. Mo. Ter. *Nutt.*
114. *Draba caroliniana*. Ap. *w.* 2 to 4 i. O. Side of mounds near St. L. *Bk.*
115. *D. arabizans*. June. *w.* ♂. rs. W. *Bk.*
116. *Thlaspi bursa-pastoris*. Shepherd's purse. Ap.—Oct. *w.* 6 to 12 i. O. cf. O. Ky.
117. *T. arvense*. Penny cress. June. *w.* 1 f. rb. Cin. O. Detroit, *Nutt.*
118. *T. tuberosum*. May. *r.* 4 to 5 i. West Penn. *Nutt.*
119. *Cakile americana*, *Nutt.* American sea rocket. Jul.—Oct. *p.* O. Shores of the great Lakes, *Nutt.*
120. *Hesperis pinnatifida*. Wild rocket. June. *p.* 18 to 24 i. 4. sw. W.
121. *H. matronalis*. Dame's violet. Garden rocket. 4.—Shores of Lake Huron, *Dr. Todd*.
122. *Sisymbrium officinale*. Hedge mustard. June—Sept. *y.* 1 to 2 f. O. rd. W.
123. *S. canescens*. Ap. *y.* 1 to 2 f. O. Banks of the Miss. St. L. *Bk.*
224. *Coronopus didyma*. Swine's cress. Jul. 1 to 2 f. O. Mo. Ter. *Nutt.*

125. *Stanleya pinnatifida*. May. *y.* 3 f. 4. cr. Mo. Ter. *Nutt.* The most splendid of the cruciferae.
126. *Lepidium virginicum*. Wild pepper grass. June. *w.* 12 to 18 i. ♂. rd. cf. O. Ky.
127. *Sinapis nigra*. Black mustard. Common mustard. June. *y.* 2 to 4 f. ☉. bt. Introduced. Seeds are stimulant, laxative, rubefacient, antiscorbutic.
128. *Cochlearia armoracia*. Horse radish. June. *w.* 2 f. 4. Introduced. Stimulant, antiscorbutic.

X. *FUMARIACEÆ*.—THE FUMITORY TRIBE.

129. *Diclytra canadensis*, *Goldie*. Turkey corn. Squirrel corn. May. pale *r—w.* 8 i. 4. sw. O. Flowers with an exquisite fragrance. Root two or three remote, yellow spheres, somewhat resembling kernels of Indian corn. Probably, secernant stimulant, diuretic, diaphoretic. Said by Dr. I. G. Jones to be a substitute for mercury in venereal complaints. Rad. Dic. can. 3i. ter die, in inf. Externally also as a lotion. Applicable either to gon. or syph.
130. *D. cucullaria*, *De Cand.* Dutchman's breeches. Ap. 6 i. 4. sw. W. Resembles Sp. 129 closely. Root a congeries of whitish, ovoid tubers, immediately at the base of the stem,—very similar to the preceding in taste.
131. *Corydalis aurea*. Golden corydalis. M.—Ju. *y.* 8 to 12 i. ☉. rs. bt. W.
132. *C. fungosa*. Climbing corydalis. Colic weed. June. *r—w.* ♂. West Penn.

XI. *CAPPARIDÆÆ*.—THE CAPER TRIBE.

133. *Polanisia graveolens*, *Raf.* False mustard. Ju. *p-y* 8 to 12 i. 4. rb. O. Ky. Narcotic vermifuge.
134. *Cleome serrulata*. Aug. *p-w.* 3 to 4 f. ☉. Mo. Ter. *Nutt.*

XII.—*ANONACEÆ*.—THE CUSTARD APPLE TRIBE.

135. *Asimina triloba*. Papaw. Custard apple. Ap. Dark *r.* 10 to 20 f. ½. bt. W. Fruit large, rich, fragrant, and by some esteemed as a luxury.

XV. *MAGNOLIACEÆ*.—THE MAGNOLIA TRIBE.

136. *Magnolia glauca*. Sweet bay. Beaver tree. Swamp laurel. M.—Ju. *w.* ½. Louisville, *MMurtrie*. Bark tonic. Flowers fragrant, stimulant, anti-rheumatic.—Bart. i. 77. Big. ii. 67.
137. *M. tripetala*. Umbrella tree. June. *w.* 25 to 35 f. ½. Mountain woods, &c. West Va. *Paddock*. Ky. *St.* Qualities like the last.

138. *M. macrophylla*. Giant-leaf magnolia. June. *w.* 30 to 35 f.  $\frac{1}{2}$ . Ky. *St.* Tenn. *Nutt.*  
 139. *M. cordata*. Heart leaf magnolia. May. *y.* 20 to 40 f.  $\frac{1}{2}$ . Ky. *St.*  
 140. *M. acuminata*. Cucumber tree. June. *b.-y.* 70 f.  $\frac{1}{2}$ . Eastern part of Ohio. Bark tonic. The cones yield an anti-rheumatic, stimulating quality to alcohol.  
 141. *M. auriculata*. Ear-leaf magnolia. May. *y-w.* 30 to 40 f.  $\frac{1}{2}$ . Ky. *St.*  
 142. *M. grandiflora*. Big laurel. Magnolia. May. *w.* 60 to 80 f.  $\frac{1}{2}$ . Louisville, *M. Murt.*  
 143. *Liriodendron tulipifera*. Tulip tree. White wood. Tulip bearing poplar. Jul. *y-g.* 60 to 90 f.  $\frac{1}{2}$ . W. Tonic, antiseptic. Bart. Med. Bot. 1. 91.

## XXI. LAURINEÆ.—THE CINNAMON TRIBE.

144. *Laurus benzoin*. Benzoin. Spice wood. Fever bush. Ap. *y.* 6--10 f.  $\frac{1}{2}$ . Woods. W. Aromatic. stimulant, tonic. Bart. ii. 91.  
 145. *Laurus sassafras*. Sassafras. April. *y.* 5--50 f.  $\frac{1}{2}$ .—Woods. W. Stimulant, demulcent, diaphoretic.

## XXII. BERBERIDEÆ.—THE BARBERRY TRIBE.

146. *Berberis vulgaris*. Barberry. Ap. *y.* 4-6 f.  $\frac{1}{2}$ . rs.—Tenn. *Nutt.* Acid, astringent.  
 147. *Leontice thalictroides*, *Lin.* Blue cohosh. Poppoose root. Ap. *g-y.* 1 f.  $\frac{1}{4}$ . sw. O. Ky. Bitter, diuretic, preparatory parturient. The root.

## XXIII. MENISPERMEÆ. THE COCCULUS TRIBE.

148. *Menispermum canadense*. Moonseed. Yellowparilla. Jul. *g-y.* Vine  $\frac{1}{2}$ . bt. O. Ky. Tonic, diuretic, alterative. The root.  
 149. *M. similacinum*. Jul. *y.* Vine.  $\frac{1}{2}$ . Ky. *St.*  
 150. *M. lyoni*. Ju.  $\frac{1}{4}$ . Ky. and Tenn. *Lyon.*

## XXIV. MALVACEÆ. THE MALLOW TRIBE.

Generally possess mucilaginous, demulcent properties.

151. *Sida abutilon*. Indian mallows. Jul. *y.* 4 f.  $\odot$ . rd. W.  
 152. *S. dioica*. Sept. *w.* 4 to 7 f.  $\frac{1}{4}$ . md. Miami country, O.  
 153. *S. spinosa*. Jul. *y.* 1 to 2 f.  $\odot$ . rd. W.  
 154. *S. alcaoides*. Jul.  $\frac{1}{4}$ . Stonny fields of Ky. and Tenn. *Pursh.*  
 155. *Nuttallia digitata*. May. *r.* 3 to 4 f.  $\frac{1}{4}$ . Pawnee villages.  
 156. *Hibiscus militaris*. Martial hibiscus. Aug. *w-y.* 4 to 6 f.  $\frac{1}{4}$ . Wet woods. O. Ky.



157. *H. moscheutos.* Aug. *w*—*p.* 4 to 6 f. Swamps, Ky. *St.*
158. *H. palustris.* Marsh hibiscus. Aug. *p.* 3 to 4 f. 4. mh. Louisville, *M. Murtrie.* It is probable that Dr. M. Murtrie mistook one of the preceding for this. See his picture of Louisville. Appendix.
159. *H. grandiflorus.* Large flowering hibiscus. Aug. *r.* 5 to 7 f. 4. Arkan. *Jas.*
160. *Malva rotundifolia.* Low mallows. June—Oct. Whitish pink. Prostrate. 4. rd. W. Naturalized. Medicinal.

XXIX. *TILIACEÆ.* THE LINDEN TRIBE.

161. *Tilia glabra.* Bass-wood. Linn. Linden. June. *w.* 60 f. 5. Woods. Emollient.
162. *T. pubescens.* Crop-ear bass-wood. June. *w.* 60f. 5. Riv. banks. W.
163. *T. heterophylla.* Various leaved bass-wood. June. 5. Banks of the Ohio and Mississippi. *Pursh.*

XXXVI. *HYPERICINÆ.* THE TUTSAN TRIBE.

164. *Hypericum pyramdatum.* Giant hypericum. Jul. *y.* 3 to 6 f. 4. Wor. O.
165. *H. prolificum.* June—Aug. *y.* 1 to 3 f. 5. dp. O. Ky.
166. *H. kalmianum.* Kalm's shrubby hypericum. Jul. *y.* 3 to 5 f. 5. Lake Huron. *Eat.*
167. *H. galioides.* Jul. *y.* 2 f. 5. Darby Plains, O.
168. *H. perforatum.* St. John's wort. Jul. *y.* 1 f. 4. Fields. W. Introduced? Healing, pectoral.
169. *H. corymbosum.* Level-top hypericum. Jul. *y.* 18 to 24 i. 4. W.
170. *H. parviflorum.* Low centaury. Small flowered hypericum. Jul. *y.* 6 to 10 i. 4. wp. O. Ky.
171. *H. densiflorum.* Many flowered hypericum. Jul. *y.* 2 f. 5. Darby Plains, O.
172. *H. virginicum.* Virginian hypericum. Aug.—Sept. *y.* 3 f. 4. Wet woods. Wor. O.
173. *H. canadense.* Canadian hypericum. June—Aug. *y.* 6 to 12 i. O. Detroit. *Eat.*
174. *H. rosmarinifolium.* Rosemary-like hypericum. Jul. *y.* 2 to 4 f. 5. Low grounds. St. L. *Bk.*
175. *H. frondosum.* Jul. *y.* 5. rs. Ky. and Tenn. *Pursh.*
176. *H. dolabriforme.* Jul. *y.* 4. dry hills, Ky. *Michx.*
177. *H. triplinerve.* Aug. *y.* 4. Banks of the Ohio. *Michx.*
178. *H. sphærocarpum.* *y.* 4. Ky. *Michx.*
179. *H. procumbens.* *y.* Dry hills, Ky. *Michx.*
180. *Ascyrum crux-andrææ.* St. Peter's wort. Jul. *y.* 1 f. 4. Sandy fields, Ky. *St.*
181. *A. stans,* *Michx.* Jul.—Aug. *y.* 1 to 2 f. 4. Louisville. *M. Murtrie.*

182. *Sarothra gentianoides*. Pine weed. Nit weed. Orange grass. June. *y*—*p*. 4 to 8 i. O. Ky. *St*.

### XXXVIII. SAXIFRAGEÆ. THE SAXIFRAGE ORDER.

All plants of this order are more or less astringent.

183. *Saxifraga pennsylvanica*. Large saxifrage. Water saxifrage. May—June. *y*—*g*. 2 to 5 f. 4. md. mh. Wor. O.  
 184. *Saxifraga virginensis*. Early saxifrage. Ap. May. *w*. 4 to 12 i. 4. rs. W.  
 185. *Heuchera americana*. Alum root. June. *r*. 2 to 3. 4. rs. W. Powerfully astringent. Bart. Med. Bot. ii. 159.  
 186. *H. pubescens*. May, June. *r*—*y*. 2 f. 4. Ky. *St*.  
 187. *H. caulescens*. June. *w*. 4. Ky.  
 188. *H. acerifolia*. 4. Ky.  
 189. *Chrysosplenium oppositifolium*. Golden saxifrage. Water carpet. Ap. *g*. creeping. 4, Springs, &c. Near Chillicothe, O.  
 190. *Mitella diphylla*. Currant leaf. False sanicle. May. *w*. 8 to 10 i. 4. rs. W.  
 191. *M. cordifolia*. June. 6 to 8 i. 4. Detroit. *Eat*.  
 192. *Tiarella cordifolia*. Mitre-wort. May. *w*. 8 to 10 i. 4. sw. rs. Ky. *St*.  
 193. *Parnassia americana*. Flowering plantain. Parnassus grass. Sept. *w*. 12 to 13 i. 4. wp. O. Mich.  
 194. *Itea virginica*. June. *w*. 4 to 8 f. 4. Louisville, *M. Murt*.

### XLII. HAMAMELIDEÆ.—THE WITCH-HAZEL TRIBE.

195. *Hamamelis virginica*. Witch-hazel. Nov. *y*. 6 to 12 f. 4. Woods. O. Ky. Astringent, sedative.

### XLIII. PHILADELPHIÆ.—THE MOCK ORANGE TRIBE.

196. *Philadelphus hirsutus*. Hairy syringa. *w*. 4. Tenn. *Nutt*.

### XLV. GROSSULACEÆ.—THE CURRANT TRIBE.

197. *Ribes hirtellum*. Wild gooseberry. May. *g*. 2-3 f. 4. rs. Wor. O.  
 198. *R. oxycanthoides*. Smooth gooseberry. May. *y*. 3 f. 4. rs. Louisville, *M. Murt*.  
 199. *R. cynosbati*. Prickly gooseberry. Ap.—June. *w*—*g*. 4. Ky. *St*.  
 200. *R. floridum*. Wild black currant. Ap.—May. *y*. 3-4 f. 4. Hedges. Covington, Ky.  
 201. *R. albinervum*. Ap.—May. *g*—*y*. 4. Sources of the St. Croix river. *Houghton*.

XLVI. *CACTEÆ*.—THE INDIAN FIG TRIBE.

202. *Cactus opuntia*. Prickly pear. June. *y.*  $\frac{1}{2}$ . Sandy Banks. Ky. Ill.  
 203. *C. ferox*. Jul. *y-r.*  $\frac{1}{4}$ . Arid plains. Mo. Ter. *Nutt.*  
 204. *C. viviparus*. Jul. *r.*  $\frac{1}{4}$ . Mo. Ter. *Nutt.*  
 205. *C. mamillaris*. Mo. Ter. *Nutt.*

XLVII. *ONAGRARIÆ*.—THE EVENING PRIMROSE ORDER.

206. *Epilobium spicatum*. Willow herb. Jul. *p.* 3 to 5 f.  $\frac{1}{4}$ . New meadows. W. Bk. Root emollient, slightly astringent, anti-dysenteric.  
 207. *E. coloratum*. Jul. *p.* 3 to 4.  $\frac{1}{4}$ . wp. md. W. Bk. Ky. *St.*  
 208. *E. palustre*. Marsh willow herb. Aug.--Sept. Pale *r.* 2 to 3 f.  $\frac{1}{4}$ . wp. br. O.  
 209. *E. lineare*. Jul. *w-r.* *w.* 1 to 2 f. wp. O. Two miles south of Columbus, eight miles east of Dayton.  
 210. *Gaura biennis*. Virginian loosestrife. Jul.--Aug. *r.* 2 to 3 f.  $\frac{1}{2}$ . dp. O. Ky. *St.* Near St. L. Bk.  
 211. *G. mollis*. Jul.--Aug. *r.* 3 f. dp. O?  
 212. *Oenothera biennis*. Evening primrose. Scabish. Tree primrose. June.--Sept. *y.* 3 to 5 f.  $\frac{1}{2}$ . Fields, &c. W.  
 213. *O. muricata*. Jul.--Aug. *y.* 1 to 2 f.  $\frac{1}{2}$ . Fields. O. Ky.  
 214. *O. grandiflora*. Large flowering evening primrose. Jul.--Aug. *y.* 2 to 3 f.  $\frac{1}{2}$ . Fields. Ky. *St.* Figured in Bart. Fl. N. A. i. 20.  
 215. *O. tetragona*.  $\frac{1}{4}$ . Ky? *St.*  
 216. *O. sinuata*. June. *y.* 1 to 6 i.  $\frac{1}{4}$ . Mound near St L. Bk.  
 217. *O. albicaulis*. White-stem evening primrose. Jul. *w.* 3 f.  $\frac{1}{4}$ . Plt. Mo. Ter. *Nutt.*  
 218. *O. pinnatifida*. June. *w.* 6 to 24 i.  $\frac{1}{2}$ . White river, Mo. Ter. *Nutt.*  
 219. *O. cæspitosa*. Jul. *w-r.*  $\frac{1}{4}$ . White riv.  
 220. *O. serrulata*. June. *y.* Plt. Mo. Ter. *Nutt.*  
 221. *O. macrocarpa*. Aug. *y.*  $\frac{1}{2}$ . Mo. near St. L. *Nutt.* Near Lead mines. Bk.  
 222. *O. viscosa*. Louisville, *M. Murtrie.*  
 223. *O. fruticosa*. Sundrops. Shrubby *œnothera*. Jul. *y.* 12 to 18 i.  $\frac{1}{4}$ .  $\frac{1}{2}$ ? dp. Near Columbus, O.  
 224. *Jussieuia leptocarpa*. *y.* O Mo. Ter. *Nutt.*  
 225. *J. subcaulis*. June. *y.*  $\frac{1}{4}$ . Mo. Ter. *Lewis.*  
 226. *Ludwigia alternifolia*. Seed box. Jul. *y.* 1 to 3 f.  $\frac{1}{4}$ . mh. O. Ky.

227. *L. decurrens*. Aug. *y*. 2 f. ☉. Louisville, *MMurt*.  
 228. *Isnardia palustris*. Water purslane. June. *g*. Creeping. 4. Mud, &c. O. Ky.

XLVIII. *HALORAGEÆ*.—THE HIPPURIS TRIBE.

229. *Hippuris vulgaris*. Mare's tail. Aug. *y--g*. 12 to 18 i. 4. pl. Ky. *St*.  
 230. *Callitriche verna*. Water chickweed. May--Aug. *w*. Floating. 2 to 3 f. long. Shallow streams. Ky. *St*.  
 231. *Myriophyllum verticillatum*. Water milfoil. Jul. 18 i? 4. pl. Plt. *Jas*. Cin. O.

XLIX. *CIRCEACEÆ*.—ORDER OF THE ENCHANTER'S NIGHT SHADE.

232. *Circœa lutetiana*. Enchanter's night shade. Jul. *w*. 1 to 2 f. 4 sw. W.  
 233. *C. alpina*. Jul. *r--w*. 4 to 8 i. 4. sw. Wor. O.

LI. *LOASEÆ*.

234. *Bartonia ornata*, *Nutt*. Barton's flower. *y--w*. 2 to 4 f. 4? sr. Mo. Ter. *Nutt*. Figured: Bart. Fl. N. A. iii. 29.  
 235. *B. nuda*. *y--w*. 4. Mo. Ter. near the Great Bend of the Missouri. *Nutt*.  
 236. *Mentzelia aurea*. *y*. 12 i. Near the Lead Mines of St. Louis. Plt. riv. *Nutt*.

LII. *SALICARIÆ*.—THE GRASS POLEY TRIBE.

237. *Cuphea viscosissima*. Wax bush. Sept. *p*. 12 to 13 i. ☉. W. Figured. Bart. Fl. N. A. i, 62.  
 238. *Lythrum hyssopifolium*. Dwarf grass poley. Aug. *p*. 12 to 24 i. 4. wp. W.  
 239. *L. alatum*. Jul. *p*. 2 to 3 f. 4. mh. St. L. *Bk*.  
 240. *L. virgatum*. Jul. *p*. 4. Louisville, *MMurtric*.  
 241. *Decodon verticillatum*, *Elliot*. Grass poley. Swamp willow herb. Aug. *p*. 2 to 4 f. 4. mh. or wet places. Ohio near Dayton. Louisville, *MMurt*. Ky. *St*.  
 242. *Ammannia humilis*. Aug. *b*. 4 to 8 i. ☉. Damp ground. Ky. *St*.

LIV. *MELASTOMACEÆ*.—THE MEADOW BEAUTY ORDER.

243. *Rhexia virginica*. Meadow beauty. Deer grass. Jul. *p*. 1 to 2 f. 4. Ky. *St*. Mo. *Bk*. Figured. Bart. Fl. N. A. i. 12.

244. *Rhexia mariana*. Jul. *w*—*r*. 1 to 2 f. 4. Ky. *St.* Fig. Bart. Fl. N. A. i. 96.

LIX. *ELÆAGNEÆ*.—THE OLEASTER TRIBE.

245. *Elæagnus argentea*. The silver oleaster. Ju. ½. 8 to 12 f. Mo. Ter. *Nutt.*  
246. *Shepherdia canadensis*, *Nutt.* Sea buck thorn. Jul. 6 to 8 f. ½. Mich. *Eat.*  
247. *S. argentea*. Rabbit berry. 12 to 18 f. ½. Plt. *Jas.*

LXII. *ARISTOLOCHIÆ*.—THE BIRTHWORT TRIBE.

248. *Aristolochia siphon*. Birthwort. Dutchman's pipe. June. Flowers brown. Vine 30 to 40 f. ½. rs. Pittsburgh. Louisville, *M. Murtrie.*  
249. *A. serpentaria*. Virginia snakeroot. June. Brownish *p.* 8 to 12 i. 4. sw. O. Ky. Stimulant, tonic, diaphoretic, diuretic. Big. Med. Bot. iii. 82. Bart. Med. Bot. ii. 41.  
250. *Asarum canadense*. Wild ginger. Coltsfoot snakeroot. Ap. *p.* 3 to 4 i. 4. ow. sw. W. Aromatic stimulant, tonic, diaphoretic. Big. Med. Bot. i. 179. Bart. Med. Bot. ii. 85.

LXIV. *SANTALACEÆ*.—THE SANDERS-WOOD TRIBE.

251. *Nyssa multiflora*. Sour gum. Black gum. Ju. *g.* 30 to 50 f. ½. Woods. W.  
252. *N. biflora*, *Walt.* Tupelo tree. Swamp horn bean. Ju. 30 to 50 f. ½. Ky. *St.*  
253. *N. tomentosa*. May. ½. Ky. *St.*  
254. *Thesium umbellatum*. Bastard toad-flax. Jul.—Aug. *π*. 8 to 12 i. 4. rs. W.

LXV. *THYMELEÆ*.—THE MEZEREUM TRIBE.

255. *Dirca palustris*. Moose wood. Leather wood. Ap. *y.* 2 to 4 f. ½. Woods. O. Stimulant, acrid, vesicatory.

LXXII. *SANGUISORBEÆ*.—THE BURNET TRIBE.

256. *Sanguisorba canadensis*. Burnet saxifrage. Aug.—Oct. *w.* 2 to 4 f. 4. wp. Dayton, Columbus, O. Slightly astringent and tonic.

LXXIII. *ROSACEÆ*.—THE ROSE TRIBE.

§ 1. *POTENTILLEÆ*.—*Strawberry like.*

257. *Potentilla canadensis*. Cinquefoil. Five-finger. Ap.—



- May. *y.* Trailing. 4. ow. O. Ky. Astringent, &c.  
 One of Thompson's medicinal plants.
258. *P. simplex*. Erect cinquefoil. May-Aug. 8 to 12 i. 4.  
 ow. Wor. O. St. L. *Bk.*
259. *P. norwegica*. Norway cinquefoil. June-Aug. *y.* 8 to  
 18 i. O. O.
260. *P. hirsuta*. Hairy cinquefoil. Jul. *y.* O. Wor. O.
261. *P. fruticosa*. Shrubby cinquefoil. June-Sept. *y.* 2 f. 4.  
 wp. Mich. O.
262. *P. pennsylvanica*. June. *y.* 1 to 2 f. 4. Detroit. *Eat.*
263. *P. argentea*. Silver five-finger. Jul. *w-y.* 4 to 10 i. 4.  
 Prairies near St. L. *Bk.*
264. *P. supina*. June-Aug. *y.* O. Creeping on the ground.  
 Mich. *Eat.* W. *Bk.*
265. *Comarum palustre*. Marsh five-finger. Jul. *p.* 12 to 18 i.  
 4. mh. bogs. Louisville, *M. Murtrie*. An active astringent.  
*Eat.*
266. *Fragaria virginiana*. Wild strawberry. May. *w.* 4. O.  
 Ky.
267. *F. canadensis*. Mountain strawberry. Ap.-May. *w.* 4.  
 Mich. *Eat.* Ky. *St.*
268. *Dalibarda repens*. Spice root. False violet. June. *w.*  
 Creeping. 4. Wor. O.
269. *D. fragaroides*. Dry strawberry. May. *y.* 3 to 4 i. 4.  
 Woods. Wor. Cin. O.
270. *Agrimonia eupatoria*. Agrimony. Jul. *y.* 2 f. 4. wp.  
 ow, if damp. O. Ky. Astringent, corroborant, deob-  
 struent, Hoop. Med. Dic. Raf. Med. Fl., &c.
271. *A. parviflora*. Small flowered agrimony. Aug. *y.* 1 to 3  
 f. 4. ow, if dry. O. Ky. Properties like the last.
272. *A. suaveolens*. Jul. *y.* 5 f. 4. Borders of marshes. St.  
 L. *Bk.*
273. *Geum strictum*. Upright avens. Yellow avens. Aug. *y.*  
 2 f. 4. West Va. *Paddock.*
274. *G. virginianum*. Avens. Virginian avens. June-Jul. *w.*  
 2 f. 4. sw. ow. W. Medicinal. Astringent.
275. *G. album*. White avens. June-Jul. *w.* 2 f. 4. Prairies  
 12 miles E. Wor. O.
276. *G. ciliatum*. Jul. *y-p.* 12 to 18 i. md. O.
277. *G. rivale*. Purple avens. Water avens. Evinroot, in  
 New York. May-June. *p.* 18 i. Said to grow in the  
 northern part of Ohio. Astringent, tonic. In New York  
 the root sometimes substitutes coffee.
278. *Rubus strigosus*. Red raspberry. May. *w.* 3 to 5 f. 4.  
 O. Mildly astringent. The leaves are used.
279. *R. occidentalis*. Black raspberry. Wild raspberry.

- Monthly raspberry. May-Jul. May-Oct. *w.* 2 to 5 f. *h.* ow. *W.*
280. *R. villosus.* Blackberry. June. *w.* 4 to 6 f. *h.* ow. &c. *W.* Astringent. See *Big. Med. Bot.*
281. *R. trivialis.* Low blackberry. Dewberry. May-June. *w.* Mostly trailing. *h.* ow. &c. *O. Ky.* Properties similar to the last.
282. *R. idæus.* Raspberry. June. *w.* 3 to 5 f. *h.* Fruit red. ow. *Ky. St. Mo. Ter. Jas. Britain. London.*
283. *R. parviflorus.* Small flowering bramble. *w.* *h.* Mich. *Eat.*
284. *R. odoratus.* Flowering raspberry. Wild mulberry. Ju. *p.* 3 to 4 f. *h.* rs. *O. Ky.*
285. *Sibbaldia procumbens.* Ap. *y.* Procumbent. *4.* Mo. *Ter. Nutt.*

§ 2. ROSEÆ.—*Rose like.*

286. *Rosa rubifolia.* Climbing rose. Ohio multiflora. Jul. *r.* changing to *w.* The rose referred to is very common on the borders of the Ohio prairies. It sometimes appears as a shrub 5 or 6 feet high; more frequently it climbs as a woody vine to the height of 15 or 20 feet. Its magnificent appearance when in full bloom is almost unequalled. *O. Ky. Lake shores.*
287. *R. blanda.* Jul. *r.* 5 to 8 f. *h.* Mar. *O.*
288. *R. rubiginosa.* Sweet-briar. Eglantine. July. Pale *r.* 3 to 10 f. *h.* Hedges, &c. *Ky. O.*
289. *R. parviflora.* Small-flowered rose. Ju.-July. *r.* 3 f. *h.* Woods. *W.*
290. *R. carolina.* June-Jul. *r.* 3 to 8 f. *h.* Swamps. Mo. *Beck.*
291. *R. lucida.* Jul. *r.* 3 to 4 f. *h.* Louisville, *M. Murt.*

§ 3. SPIRÆACEÆ.—*Meadow-sweet like.*

292. *Spiræa salicifolia.* Willow-leaved spiræa. Jul. *w.* 2 to 4 f. *h.* md. wp. *W.*
293. *S. tomentosa.* Hard-hack. Jul.-Aug. *p.* 2 to 3 f. *h.* *Ky. St.*
294. *S. opulifolia.* Nine-bark. June-Jul. *w.* 3 to 6 f. *h.* sr. Wor. *O. Ky.*
295. *S. betulifolia.* Birch-leaved spiræa. June. *r.* 1 f. *h.* *Ky. St.*
296. *S. aruncus.* Goats-beard. Steeple-weed. June. *w.* 2 to 6 f. *4.* Mar. *O. Ky.*
297. *S. lobata.* Meadow-sweet. Pride of the prairie. Ju. *r.* 2 to 4 f. *4.* wp. *O.*

298. *Gillenia trifoliata*. Indian physic. *Gillenia*. June. *w.* 2 to 3 f. 4. *sw.* Morgantown, Va. *Paddock*. Emetic, emeto-cathartic, diaphoretic. *Big. Med. Bot.* iii. 10. *Bart. Med. Bot.* i. 65.
299. *G. stipulacea*. Western gillenia. American ipecac. Ju.-Jul. *w.* 2 to 4 f. 4. Woods. W. Properties similar to the last. *Fig. Bart. Med. Bot.* i. 71.

LXXIV. *POMACEÆ*.—THE APPLE TRIBE.

300. *Aronia arbutifolia*. Red choak-berry. May-June. *w-r.* 2 to 4 f. 5. Louisville, *M. Murt.*
301. *A. botryapium*. Shad bush. June berry. Service berry. *Ap. w.* 8 to 30 f. 5. O. Ky.
302. *A. melanocarpa*. Black choak-berry. May-June. *w.* 4 to 6 f. 5. Bogs, &c. Ky. *St.*
303. *A. sanguinea*. Bloody choak-berry. May. *w.* 4 to 6 f. 5. W. *Pursh.*
304. *A. alnifolia*. Alder-leaved service berry. May. 4 to 5 f. 5. Mo. Ter. *Nutt.*
305. *Crategus coccinea*. Thorn bush. Red haw. May. *w.* 5 to 15 f. 5. Woods. O. Ky.
306. *C. crus-galli*. May. *w.* 5 to 20 f. 5. W.
307. *C. populifolia*. *Ap. w.* 5. Ky. *St.*
308. *C. pyrifolia*. Pear-leaf thorn. June. *w.* 5. Michigan, *Beck.* O.
309. *C. punctata*. Thorn tree. May. *w.* 5. O.
310. *C. glandulosa*. May. *w.* 5. O.
311. *C. spathulata*. *Ap. w.* 10 to 12 f. 5. O.
312. *C. apiifolia*. *Ap. w.* 4 to 12 f. 5. O.
313. *Sorbus americana*. Mountain ash. May. *w.* 10 to 20 f. 5. Near Lake Huron, *Houston.*
314. *Pyrus coronaria*. Crab apple. May. Pale *r.* 15 to 20 f. 5. W.

LXXV. *AMYGDALÆÆ*.—THE ALMOND TRIBE.

315. *Prunus virginiana*. Black cherry. Wild cherry. May. *w.* 30 to 60 f. 5. Woods. W. Tonic, anodyne. *Big. Med. Bot.*
316. *P. pennsylvanica*. Red cherry. Wild red cherry. *Ap.-May. w.* 8 to 20 f. 5. Ky. *St.*
317. *P. serotina*, *De Cand.* Choke cherry tree. June. *w.* 20 to 60 f. 5. Ky. *St.*
318. *P. depressa*. Sand cherry. May. *w.* 2 to 6 f. 5. River banks, Ky. *St.* Fruit black, agreeable.
2. 19. *P. americana*. Meadow plum. Wild red plum. Yellow

plum, *Beck.* May. *x.* 10 to 12 f.  $\frac{1}{2}$ . md. Prairies, &c. O.

320. *P. chicensis*. Summer plum. May. *w.* 10 to 15 f.  $\frac{1}{2}$ . Ky. *St. Ark. Jas.*

LXXVII. *LEGUMINOSÆ*.—THE PEA TRIBE.

321. *Baptisia alba*. Prairie indigo. Jul. *w.* 2 to 4 f.  $\frac{1}{4}$ . dp. Central Ohio. Medicinally a substitute for *B. tinctoria*. *Dr. Jones.*
322. *B. cœrulea*. Blue flowered indigo. Spiked indigo weed. Jul. *b.* 2 to 3 f. rb.  $\frac{1}{4}$ . Ky. Cin. O.
323. *B. tinctoria*. Wild indigo. Jul.–Aug. *y.* 2 to 3 f.  $\frac{1}{4}$ . Ky. *St.* Astringent, antiseptic, cathartic, emetic, stimulant. Beach. Mat. Med. Raf. Med. Fl.
324. *B. bracteata*. Ap. *w.* 2 f.  $\frac{1}{4}$ . St. L. *Nutt. Jas.*
325. *Sophora sericea*. *w.*  $\frac{1}{4}$ . 1 f. Plt. *Jas.* Mo. Ter. *Nutt.*
326. *Medicago lupulina*. Hop medick. None-such. Ju.–Aug. *y.* Procumbent. ☉. Throughout the U. S. *Bk.* Introduced.
327. *Psoralea glandulosa*. June. *p.* 12 to 18 i.  $\frac{1}{4}$ . O. Ky. Tenn. *Nutt.*
328. *P. cuspidata*.  $\frac{1}{4}$ . Mo. Ter. *Nutt.*
329. *P. esculenta*. Bread root. June. *b.* 12 to 18 i.  $\frac{1}{4}$ . Various part of Mo. Ter. Lead Mines near St. Louis, *Nutt.* The root is an important article of diet to the Western Indians.
330. *P. incana*. Jul. *b.* 12 i.  $\frac{1}{4}$ . Open plains, Mo. Ter. *Nutt.*
331. *P. lanceolata*. Aug. *w-b.* 1 f.  $\frac{1}{4}$ . Plt. *Nutt.*
332. *P. onobrychis*. 3 to 5 f. Near St. L. *Nutt.*
333. *P. canescens*. June. *y.* 2 to 3 f.  $\frac{1}{4}$ . St. L. *Jas.*
334. *P. jamesii*. 4 i. St. L. *Jas.*
335. *Trifolium repens*. White clover. May–Oct. *w.* 6 to 12 inches long, creeping.  $\frac{1}{4}$ . Valuable in pastures.
336. *T. procumbens*. Yellow clover. June. *y.* Procumbent, 3 to 6 inches long. Dry fields, Ky. *St. Mar. O.*
337. *T. stoloniferum*. Running buffalo clover. Ju. *w.* Creeping, 4 to 8 inches long.  $\frac{1}{4}$ . Fields, ow., &c. O. Ky.
338. *T. reflexum*. Buffalo clover. June. *r.* Procumbent, 12 to 18 i. Dry hills, Ky. *St. Wor. O.* Great Lakes.
339. *T. pratense*. Red clover. May. *r.* 2 to 3 f.  $\frac{1}{4}$ . md. Introduced. W. A valuable artificial grass.
340. *Lespedeza capitata*. July–Aug. *p.* 2 to 3 f.  $\frac{1}{4}$ . dp. ow. O. Ky.
341. *L. violacea*. Jul. *p.* 1 to 2 f.  $\frac{1}{4}$ . dp. Ky. Mar. O.
342. *L. procumbens*. Aug.–Sept. *p-y.* Procumbent, 2 to 4 f.  $\frac{1}{4}$ . Sandy woods, Ky. *St.*



343. *L. prostrata*. Aug. *p.* 4. Sandy soils, Ky. *St.*
344. *L. augustifolia*. Sept. *w-p.* 3 to 4 f. 4. Sandy soils, ow. dp. Col. Mar. O.
345. *L. polystachia*. Aug.-Sept. *r-w.* 2 to 4 f. 4. dp. ow. O.
346. *L. divergens*. Jul. *p.* 1 to 2 f. 4. dp. Darby Plains, Cin. O.
347. *L. reticulata*, *Bk.* Bush clover. Aug. *p.* 2 f. 4. Dry woods, Ill. *Bk.*
348. *Hedysarum canadense*. Canadian trefoil. Jul. *p.* 3 to 4 f. 4. dp. ow. W.
349. *H. lævigatum*. Smooth trefoil. Aug. *p.* 3 to 4 f. 4. dp. Woods. O.
350. *H. rotundifolium*. Round leaved trefoil. Aug. *p.* Prostrate, 2 to 3 f. long. 4. rs. O. Ky.
351. *H. paniculatum*. Aug. *p.* 3 f. 4. ow. O.
352. *H. rigidum*. Rigid trefoil. Aug. *p.* 3 f. 4. Mar. O.
353. *H. acuminatum*. Broad-leaf trefoil. Jul.-Aug. *p.* 1 to 2 f. 4. sw. Ky. O.
354. *H. nudiflorum*. Naked-flowered trefoil. Aug. *p.* 1 to 2 f. O. sw. Ky. O.
355. *H. viridiflorum*, *Bk.* Green-flowered trefoil. Jul. *g-p.* 3 to 4 f. 4. sw. Ky. *St.*
356. *H. aikinianum*, *Bk.* Aikin's trefoil. Jul.-Aug. *r-p.* 3 f. 4. ow. O. Ky.
357. *H. glutinosum*. Sticky trefoil. Jul. *p.* 4. Ky. *St.*
358. *H. pauciflorum*. Few-flowered trefoil. *w.* 4. Decumbent. W.
359. *H. boreale*, *Nutt.* Alpine trefoil. June-Jul. *p.* 4. Mountains, &c. Mo. Ter. *Nutt.*
360. *H. glabellum*. Jul.-Sept. *p.* 1 to 2 f. 4. Damp woods, one mile E. from Monroe, O. Detroit, *Eat.* Perhaps the most elegant plant of the genus.
361. *H. obtusum*. Blunt-leaf trefoil. Aug. *p-g.* 1 to 2 f. 4. ow. dp. Mi. O.
362. *H. strictum*. Branchless trefoil. Jul. *p.* 2 to 4 f. 4. dp. Middletown, O.
363. *H. marilandicum*. July-Aug. *p.* O. Dry fields and woods. Louisville, *M. Murt.*
364. *Galega virginiana*. Goat's rue. Jul. *r. y. w.* 1 f. 4. Barrens. Throughout U. S. *Bk.*
365. *G. hispidula*. May. *r.* 2 f. 4. Ky? *St.*
366. *Astragalus canadensis*. Milk vetch. June. *y.* 2 f. 4. Banks of streams. W.
367. *A. missouriensis*, *Nutt.* May. *p.* 6 i. Hills. Mo. Ter. *Nutt.*
368. *A. galegoides*. *w.* 2 f. Mo. Ter. *Nutt.* Near Zanesville, O?



369. *A. hypoglottis*. May. Mo. Ter. *Nutt.*  
 370. *A. laxmanni*. June. *b.* 1 f. 4. Hills, Mo. Ter. *Nutt.*  
 371. *A. carnosus*. June. *b-p.* 2 f. Plains, Mo. Ter. *Nutt.*  
 372. *A. gracilis*. May. *p.* 2 f. 4. Plains, Mo. Ter. *Nutt.*  
 373. *Stylosanthes elatior*. Pencil flower. Aug. *y.* 9 to 10 i. 4. Louisville, *M. Murt.*  
 374. *Petalostemon violaceum*. Aug. *r-p.* 4. Ky. St. Mo. Ter. *Nutt.*  
 375. *P. candidum*. Jul. *w.* 4. Tenn. Ill. Mo. *Pursh.* Ky. St.  
 376. *P. macrostachyum*. *w.* 2 f. 4. Plt. *Jas.*  
 377. *Dalea aurea*. Jul. *y.* 2 f. 4. Gravelly hills, Mo. Ter. *Nutt.*  
 378. *D. laxiflora*. Jul. *w.* 6 f. 4. Prairie du Chien, *Nutt.*  
 379. *D. formosa*. *p.* 5. Plt. *Jas.*  
 380. *D. alopecurioides*. Jul. *b.* 1 f. ☉. Mississippi River, *Pursh.*  
 381. *Phaca villosa*. Jul. *y.* 4. Hills, Mo. river, *Nutt.*  
 382. *P. triphylla*. May. 4. Mo. Ter. *Nutt.*  
 383. *Orobus dispar*. Bitter vetch. June. *w-y.* 4. Plt. *Jas.*  
 384. *O. longifolius*, *Nutt.* May. *r.* 4. Sandy hills, Mo. Riv. Plt. *Nutt. Jas.*  
 385. *Oxytropis lambertii*. June. *p.* 4. Plt. *Nutt. Jas.*  
 386. *Thermia rhombifolia*. March? *y.* 8 to 12 i. 4. Plt. *Nutt. Jas.*  
 387. *Glycyrrhiza lepidota*. American liquorice. Jul. *w.* 3 to 5 f. 4. bt. St. L. *Bradbury.* Mo. Ter. *Nutt. Jas.* Expectorant, demulcent. The root probably a substitute for the officinal liquorice. Disp. Wood and Baché. 322.  
 388. *Trigoneila sericea*. American fenugreek. Jul. *w-r.* 1 f. ☉. bt. Plt. *Nutt.* Medicinal? Duncan's Disp. 319.  
 389. *Amorpha fruticosa*. Jul. 6 f. 5. Ky. St. Plt. *Jas.*  
 390. *A. nana*. May. *p-b.* 9 i. 5. Grassy, woodless hills. Plt. *Nutt.*  
 391. *A. canescens*. Lead plant. Mineral plant. July? *b.* 18 i. 5. St. L. *Nutt.* Plt. *Jas.* This plant is said to grow only in the immediate neighborhood of lead mines.  
 392. *Virgilia lutea*. Virgil's tree. June. *y.* Tall tree. St. Ky. St. Tenn. *Nutt.* The bark affords a yellow dye. *Eat.*  
 393. *Robinia pseudacacia*. Locust tree. Black locust. False acacia. May. *w.* 30 to 50 f. 5. bt. Woods. W.  
 394. *Clitoria mariana*, *Lin.* July-Aug. *b.* Climbing. 4. bt. &c. O?  
 395. *Clitoria virginiana*. Aug. *p.* Climbing. 4. Hedges.

- Ky. *St.* Flowers larger than those of any other North American plant of this order.
396. *Amphicarpa monoica*. Jul. *b. w.* Twining. 3 to 4 feet long.  $\odot$ . *ow.* O. Ky.
  397. *A. comasa*. Jul. *p.* Prostrate and climbing. 3 to 5 f.  $\mathcal{U}$ . Prairie near Middletown, O.
  398. *A. sarmentosa*. Aug. *w.* Prostrate. *ow?* O?
  399. *Apios tuberosa*. Ground-nut. Jul. *p.* Twining, 2 to 6 f.  $\mathcal{U}$ . *bt.* *ow.* &c. O. Ky. Root tuberous and nutritious.
  400. *Phaseolus perennis*. Wild bean. Jul. *p.* Twining.  $\mathcal{U}$ . *ow.* W. *Bk.* Ky. *St.*
  401. *Strophostyles helvolus*. July-Aug. *p.* Climbing or prostrate.  $\mathcal{U}$ . Sandy fields. W. *Bk.*
  402. *S. diversifolius*. Aug. *p.* Prostrate, 3 to 4 f.  $\odot$ . Prairie near Hamilton, O. Woods. *Bk.*
  403. *Wistaria frutescens*. Wistar's vine. *b-p.* Climbing.  $\mathfrak{h}$ . Ill. *Eat.*
  404. *Lupinus perennis*. Wild lupine. May. *b.* 1 f.  $\mathcal{U}$ . W. *Bk.* Louisville, *MMurt.*
  405. *L. pusillus*. Stinted lupine. June. *b.* 4 to 6 i.  $\odot$ . or  $\mathfrak{f}$ . White River, Mo. Ter. *Nutt.*
  406. *Lathyrus decaphyllus*. *p.*  $\mathcal{U}$ . Plt. *Jas.* Grassy plains, Mo. Ter. *Nutt.*
  407. *L. venosus*. Vein-leaved vetchling. July-Aug. *p.*  $\mathcal{U}$ . *wp.* With grasses, &c. Mich. *Eat.* O.
  408. *Vicia americana*. American vetch. May-June. *p.* Seldom erect.  $\mathcal{U}$ . *rb.* *sw.* &c. O. Mo. Ter. W.
  409. *V. cracca*. Tufted vetch. Aug. *p-w.*  $\mathcal{U}$ . *md.* Ky. *St.*
  410. *V. caroliniana*. Carolinian vetch. May-June. *w.* Climbing.  $\mathcal{U}$ . Mountains, &c. Mich. *Eat.*
  411. *V. sativa*. Tare. Common vetch. June. *b.* 1 to 2 f.  $\odot$ . *cf.* *Intr.* W?
  412. *Pisum maritimum*, *Lin.* Beach pea. May-July. *b-p.*  $\mathcal{U}$ . Shores of the Great Lakes, *Nutt.*
  413. *Darlingtonia brachyloba*. Darlington's plant.  $\mathcal{U}$ . Ky. &c. *Eat.* Prairies, Ill. Ky. *Pursh.*
  414. *D. glandulosa*.  $\mathcal{U}$ . Tenn. *Eat.* Banks of Tenn. and Miss. *Pursh.*
  415. *Schrankia uncinata*. Sensitive briar. Jul. *p.* 2 to 3 f.  $\mathcal{U}$ . Plt. *Jas.* Near Potosi, Mo. *Bk.*
  416. *Cassia marilandica*. American senna. Wild senna. July-Aug. *y.* 3 to 4 f.  $\mathcal{U}$ . *bt.* W. Purgative. Big. Med. Bot. i. 166.
  417. *C. chamæcrista*. Prairie senna. Partridge pea. July-Aug. *y.* 1 to 2 f.  $\odot$ . *dp.* Sandy places. O. Ky.

Abundant on Darby Plains, three miles S. from Milford. The leaves of this plant are probably superior to the last, for medicinal use. Leaves sensitive.

- 418. *C. nictitans*. Winking cassia. Wild sensitive plant. Ju.-July. *y.* 1 f. ☉. Sandy places. rb. Mar. O. Ky.
- 419. *C. tora*. Jul. *y.* 3 f. ☉. Ky. *St.*
- 420. *C. aspera*. Rough cassia. ☉. 1 to 3 f. Ky. *St.*
- 421. *Gymnocladus canadensis*. Coffee bean. Coffee tree. May-June. *w.* 30 to 50 f. ♀. O. Ky.
- 422. *Gleditschia triacantha*. Honey-locust. June. *w* or *y-w*. 20 to 60 f. ♀. Woods. W.
- 423. *Cercis canadensis*. Judas tree. Red bud. Ap. *r.* 10 to 30 f. ♀. Woods. W.

#### LXXVIII. URTICEÆ.—THE NETTLE TRIBE.

- 424. *Urtica canadensis*. Canadian nettle. July-Aug. *g-w*. 3 to 6 f. ♀. sw. Damp. W.
- 425. *U. divaricata*, *Beck.* July-Aug. 2 to 3 f. ♀. rs. sw. O?
- 426. *U. pumila*. Richweed. Stingless nettle. Jul. 8 to 20 i. ☉. bt. sw. O. Ky.
- 427. *U. dioica*. Common nettle. Large stinging nettle. Ju.-Aug. *g.* 2 to 3 f. ♀. Waste places. rd. O. Ky.
- 428. *U. procera*, *Muhl.* Tall nettle. Gregarious nettle. Jul.-Aug. *g.* 3 to 4 f. ♀. O?
- 429. *U. gracilis*, *Lin.* Slender stalked nettle. June-Aug. *g.* 2 to 3 f. ♀. rs. &c. Hill two miles E. from Cin.
- 430. *U. urens*. Dwarf stinger. Stinging nettle. June-July. 12 to 20 i. ☉. cf. Intr. Ky. *St.*
- 431. *Bœhmeria lateriflora*. July. *g.* 2 to 7 f. ♀. sw. O. Ky.
- 432. *B. cylindrica*. False nettle. June-Aug. *g.* 2 to 3 f. ♀. wp. &c. Two miles S. from Columbus, O.
- 433. *Parietaria pennsylvanica*. Pellitory. June. 12 to 15 i. ☉. rs. ow. &c. W.
- 434. *Cannabis sativa*. Hemp. June. *w-g*. 6 to 8 f. ☉. Intr.
- 435. *Humulus lupulus*. Common hop. Hop vine. Aug. *g-w*. Twining. ♀. bt. Hedges. W. Tonic, narcotic. Big. Med. Bot. iii. 163.

#### LXXIX. ULMACEÆ.—THE ELM TRIBE.

- 436. *Ulmus americana*. White elm. Ap.-May. *p.* Tall tree. W. Bark astringent, demulcent. Timber valuable.
- 437. *U. fulva*. Slippery elm. May. Large tree. W. Inner bark mucilaginous, demulcent; used considerably in medicine.
- 438. *U. alata*. Whahoo. A large tree. Ky. Tenn. *Nutt.*

439. *Celtis crassifolia*. Hackberry. May. *g-w*. Tree 20 to 40 f. O. Ky.  
 440. *C. occidentalis*. Hoop ash. Beaver wood. Nettle tree. May. *g-w*. Tree of middling size. Five miles west from St. L. *Bk*.  
 441. *C. pumila*. May. *g*. 6 f.  $\frac{1}{2}$ . Banks of rivers, Ky. *St*.  
 442. *Planera aquatica*. May.  $\frac{1}{2}$ . 25 to 30 f. West of the Alleghanies, *Nutt*.

‘LXXX. *ARTOCARPEÆ*.—THE BREAD-FRUIT TRIBE.

443. *Maclura aurantiaca*. Maclure’s mock orange. Ossage apple. Bow-wood. Yellow-wood. Tree 20 to 30 f. Ark. *Jas*.  
 444. *Morus rubra*. Red mulberry. May. 15 to 40 f.  $\frac{1}{2}$ . Woods. Ky. O. Fruit very similar to blackberries, edible.

LXXXII. *CUPULIFERÆ*.—THE OAK TRIBE.

Plants of this order possess more or less astringency.

445. *Quercus imbricaria*. Shingle oak. Laurel-leaved oak. Tree 40 to 50 f. Leaves entire. O. Ky. &c. Much used for making shingles, where pine cannot be obtained.  
 446. *Q. discolor*. False red oak. May. Large tree 60 to 70 f. Forests, Mar. O.  
 447. *Q. palustris*. Pin oak. Water oak? May. Tree 40 to 60 f. *bt*. Dry woods. Swampy woods. W. Wood firm and useful.  
 448. *Q. obtusiloba*. Iron oak. Burr oak, (in Ohio.) May. 20 to 50 f. Sterile grounds, Darby Plains, O. Ky. Timber inferior only to live oak. *Q. virens*.  
 449. *Q. macrocarpa*. Over-cup oak. May. Large tree 40 to 60 f. Limestone hills, *Bk*. *bt*. Acorn very large. Timber excellent. W.  
 450. *Q. olivæformis*. Mossy-cup oak. May. Large tree, much like the preceding. *bt*. &c. Miami country.  
 451. *Q. alba*. White oak. May. A tree sometimes of gigantic dimensions. Forests, where the soil is productive. W. Bark astringent, antiseptic, tonic. Big. Med. Bot. Timber valuable.  
 452. *Q. montana*. Rock chesnut oak. Mountain oak. May 30 to 40 f.  $\frac{1}{2}$ . *rs*. O. Excellent fuel. Bark esteemed by tanners.  
 453. *Q. phellos*. Willow oak. May. 30 to 60 f.  $\frac{1}{2}$ . Swampy forests. Ky. *St*. Ark. *Jas*. Timber of little use.



454. *Q. tinctoria*. Quercitron. Black oak. May. 70 to 80 f.  $\frac{1}{2}$ . Woods. W. Bark used in dying yellow. Astringent, tonic, &c. Disp. Wood and Bache, 524. Michx. N. A. Sylv. i.91.
455. *Q. ferruginea*, Michx. Black Jack. Barren oak. May. 20 to 30 f.  $\frac{1}{2}$ . Sandy woods. Kentucky barrens, St. Esteemed for fuel. *Q. nigra*, Willd.
456. *Q. falcata*. Spanish oak. Red oak. May. 70 to 80 f.  $\frac{1}{2}$ . Sandy soil. Ky. St. Bark esteemed by tanners; wood used for staves and fuel.
457. *Q. castanea*. Yellow oak. May. 60 to 70 f.  $\frac{1}{2}$ . Mountains, &c. Ky. St. O. Bark used for dying yellow.
458. *Q. pumila*. Dwarf oak. Ap. 2 f.  $\frac{1}{2}$ . Ky. St.
459. *Q. chinquapin*. Chinquapin oak. Dwarf chesnut oak. May. 3 to 4 f.  $\frac{1}{2}$ . Barrens. Brushy Prairie near Dayton, O.
460. *Q. bannisteri*, Michx. Scrub or shrub oak. May. 4 to 6 f.  $\frac{1}{2}$ . Barrens. Brushy Prairie?
461. *Q. triloba*. Downy black oak. May. 20 to 70 f.  $\frac{1}{2}$ . Barrens. Brushy Prairie.
462. *Q. coccinea*. Scarlet oak. May. 70 to 80 f.  $\frac{1}{2}$ . Fertile woods. Louisville, M. Murt. Used for staves and fuel.
463. *Q. cinerea*. Ap. 20 f.  $\frac{1}{2}$ . Louisville, M. Murt.
464. *Castanea vesca*. Chesnut tree. May-June. Large tree. W.
465. *C. pumila*. Chinquapin. May. 6 to 12 f. Ky. Mar. O. Nut small and sweet.
466. *Corylus americana*. Hazel-nut. Wild filbert. March-Ap. 4 to 8 f.  $\frac{1}{2}$ . sw. Barrens. W.
467. *Fagus ferruginea*. Red beech. May-June. Large tree. Woods. O.
468. *F. sylvatica*. White beech. May. Large tree. Ky. St.

## LXXXIII. BETULINÆ.—THE BIRCH TRIBE.

469. *Betula rubra*. Red birch. May. 60 f.  $\frac{1}{2}$ . Banks of streams. The summer of the great flood of 1832, I saw a single prostrate but living trunk of the red birch, partly covered by alluvion, on the shore of an island in the Ohio near Marietta. It might have come from the highlands of Pennsylvania or Virginia.
470. *B. glandulosa*. Scrub birch. May. 2 f.  $\frac{1}{2}$ . Mountains. N. States to N.W. Ter. Bk.
471. *Alnus serrulata*. Alder. March. 6 to 10 f.  $\frac{1}{2}$ . mh. Swamps. bt. Ky. St.
472. *A. glauca*. March.  $\frac{1}{2}$ . St. Croix riv. Nutt. N.W. Ter. Houghton.



473. *Carpinus americana*. Blue beech. Water beech. Hornbeam. May. *g-y*. 10 to 20 f.  $\frac{1}{2}$ . Damp woods, &c. W.  
 474. *Ostrya virginica*. Iron wood. Hop hornbeam. May. 20 to 40 f.  $\frac{1}{2}$ . Woods. W.

LXXXIV. *SALICINÆ*.—THE WILLOW TRIBE.

475. *Salix myricoides*. Ap.  $\frac{1}{2}$ . Small shrub. md. rb. Woods, *Bk*. Mar. O. Mich. *Eat*.  
 476. *S. purshiana*, *Spreng*. *S. falcata*, *Pursh*. Pursh's willow. Ap.—May. 8 to 15 f.  $\frac{1}{2}$ . bt. Banks of streams, O.  
 477. *S. angustata*, *Pursh*. Ap.  $\frac{1}{2}$ . A shrub. W. *Muhl*.  
 478. *S. longifolia*. Long-leaf willow. Jul. 2 f.  $\frac{1}{2}$ . Banks of rivers. W. *Muhl*.  
 479. *S. muhlenbergiana*. Speckled willow. Ap. 3 to 5 f.  $\frac{1}{2}$ . Dry woods. Mich. *Eat*.  
 480. *S. rosmarinifolia*. Rosemary willow. March. 1 to 3 f.  $\frac{1}{2}$ . md. wp. Mich. *Eat*. O.  
 481. *S. conifera*. Rose willow. Cone-gall willow. Ap. 4 to 8 f. sw. *Bk*. wp? Mich. *Eat*. O.  
 482. *S. ambigua*. Ap.  $\frac{1}{2}$ . Low grounds, Germantown, O. *Frank*.  
 483. *S. recurvata*. Shrub willow. Ap. Low shrub. 2 to 3 f. sw. Germantown, *Frank*.  
 484. *S. tristis*. Mourning willow. Ap. 3 to 4 f.  $\frac{1}{2}$ . Germantown, *Frank*.  
 485. *S. nigra*. Black willow. Brittle-joint willow. Ap.—May. 15 to 20 f.  $\frac{1}{2}$ . Banks of streams, Mich. *Eat*. This and other species are tonic, astringent, and antiseptic.  
 486. *S. lucida*. Shining willow. May. Small tree or large shrub. Low grounds. Mich. *Eat*.  
 487. *S. grisea*. Gray willow. Ap. 3 to 8 f.  $\frac{1}{2}$ . Low grounds, Louisville, *M Murt*.  
 488. *S. babylonica*. Weeping willow. May. Ornamental tree. Intr.  
 489. *Populus tremuloides*. Quaking asp. Aspen tree. Ap. 20 to 30 f.  $\frac{1}{2}$ . Woods, Ky. *St*. Wor. O.  
 490. *P. angulata*. Water poplar. Ap. 80 f.  $\frac{1}{2}$ . Western rivers, *Jas*.  
 491. *P. lævigata*. Cotton wood. Mar. 70 to 80 f.  $\frac{1}{2}$ . bt. rs. W.  
 492. *P. candicans*. Balm of Gilead. Mar. 40 to 50 f.  $\frac{1}{2}$ . Woods, Ky. *St*. Mich. *Eat*. The viscid buds are used in the composition of healing salves.  
 493. *P. heterophylla*. Various-leaved poplar. May. 60 to 80 f. Swamps. wp. Darby Plains, O. W. *Bk*.

494. *P. grandidentata*. Large American aspen. Ap. 40 to 50 f. Hills, near Cin. O.

LXXXV. *PLATANÆ*.—THE PLANE TRIBE.

495. *Platanus occidentalis*. Sycamore. Buttonwood. American plane tree. May. 60 to 100 f.  $\frac{1}{2}$ . bt. W.  
 496. *Liquidambar styraciflua*. Sweet gum tree. May. Large tree. Low woods. W. Fragrant, aromatic. Said to be medicinal.

LXXXVI. *MYRICEÆ*.—THE GALE TRIBE.

497. *Myrica cerifera*. Bayberry. Wax myrtle. May–June. 2 to 10 f.  $\frac{1}{2}$ . Shady woods. Sandy situations, &c. Presque Isle, Lake Erie. The berries yield a valuable greenish wax. Astringent, emetic, narcotic. Beach. Big. Med. Bot. iii.  
 498. *M. gale*. Sweet gale. Dutch myrtle. May. 3 to 5 f.  $\frac{1}{2}$ . bg. Lake Sup. *Houghton*.  
 499. *Comptonia asplenifolia*. Sweet fern. Ap.–May. 2 to 4 f.  $\frac{1}{2}$ . Woods, &c. Louisville, *MMurt*. Astringent, tonic. Bart. Med. Fl. i. 224. Raf. Med. Bot. i. 115.

LXXXVII. *JUGLANDEÆ*.—THE WALNUT TRIBE.

500. *Juglans nigra*. Black walnut. Ap.–May. 50 to 60 f.  $\frac{1}{2}$ . Fertile woods. W. A most valuable and beautiful timber, resembling mahogany.  
 501. *J. cinerea*. Butter-nut. White walnut. April–May. Large tree. bt. &c. W. Cathartic. Big. Med. Bot. i. 115.  
 502. *Carya alba*. Shag-bark hickory. Ap.–May. Large tree. Fertile woods. W. Timber valuable.  
 503. *C. sulcata*. Shell-bark hickory. Ap.–May. Large tree, excellent for fuel, &c. Fertile soils, Ky. O.  
 504. *C. amara*. Bitter-nut. May. Large tree. Woods. O. Ky.  
 505. *C. porcina*. Pig-nut. Broom hickory. May. Large tree, with tough wood. Woods. Ky. *St*.  
 506. *C. tomentosa*. Common hickory. Ap.–May. Large and valuable timber tree. Fertile woods. W. O.  
 507. *C. olivæformis*. Pecan nut. Ap. Grows in West. Tenn. Ky. *St*. Louisville, *MMurt*.

LXXXVIII. *EUPHORBIACEÆ*.—THE EUPHORBIA TRIBE.

508. *Euphorbia corollata*. Flowering spurge. July–Aug. w. 1 to 2 f.  $\frac{1}{2}$ . dp. cf. O. Ky. Emetic, diaphoretic, ex-

- pectorant. Big. Am. Med. Bot. iii. 119. Wood and Bache, Disp. 288.
509. *E. obtusata*. Jul.-Aug. 12 to 18i. 4. rd. &c. Shores of Lake Erie.
510. *E. peplus*. Jul.-Aug. 6 to 18i. ☉. cr. rd. cf. O. Ky.
511. *E. maculata*. Spotted spurge. French purslane. Aug.-Oct. generally prone, or creeping. 6 to 12i. ☉. cf. rd. W.  
b. var. *parvula*, *mihi*. Dwarf spotted spurge. Jul.-Oct. Creeping, 3 to 8i. ☉. rd. O. Leaves scarce one tenth the size of the preceding.
512. *E. hypericifolia*. Aug.-Sept. Erect, 1 to 2 f. ☉ rd. Ky. *St*.
513. *E. polygonifolia*. Knot-grass-leaved spurge. Jul.-Sept. Procumbent, 8i. 4. Sands, Ky. *St*. Banks of the Ohio and Miss. *Pursh*.
514. *E. thymifolia*. Ky. *St*. Borders of the Ohio, *Michx*.
515. *E. dentata*. Toothed-leaf spurge. Jul.-Aug. ☉. Tenn. *Michx*. Jul. ☉. Plt. *Jas*.
516. *E. portulacoides*. Purslane spurge. June-Aug. 4. Mo. Ter. *Jas*.
517. *E. mercurialina*. Jul. 4. rs. Ky. *Pursh*.
518. *E. ipecacuanha*. American ipecacuanha. June. 4. Sandy soil, Louisville, (?) *M Murt*. Emetic, diaphoretic. Bart. Med. Bot. i. 218. Big. Med. Bot. iii. 109.
519. *E. pilosa*. Hairy spurge. June-Jul. 1 to 3f. 4. Wet woods, Wheeling? *Colby*.
520. *E. herronii*, *mihi*. Herron's euphorbium. Root small, branching and fibrous: stem erect, pilose: branches decussately opposite: petioles ciliate, half as long as the leaves: leaves varying from the lowest on the stem which are rhomb-ovate, to those of the involucre, which are lance linear; dentate-serrulate, obtuse, at the base acute and entire; pilose above. veins and midrib very hairy beneath: umbels small, terminal, involucre and few flowered. Aug.-Sept. ☉. 1 to 2f. Small prairie half a mile south of Middletown, Ohio. Dedicated to my friend Dr. O. M. Herron, a devoted student in natural science.
521. *Croton capitatum*. ☉. Ky. *St*.
522. *C. ellipticum*. ☉. St. L. *Nutt*.
523. *Crotonopsis linearis*. June. 12 to 18i. ☉. Sandy swamps. W. *Bk*.
524. *Acalypha virginica*. Threc-seeded mercury. June-Aug. 12 to 18i. ☉. rd. ow. O. Ky. Expecto- rant, diuretic, *Dr. Atkins*. Elliott's Bot. ii. 645.

525. *A. caroliniana*, *Walter*. Beck's Bot. 311. Jul.-Aug. 9 to 18i. ☉. ow. &c. O.
526. *A. ostryaefolia*, *mihi*. Iron-wood-leaved mercury. It is probably the *A. caroliniana* of Elliott, vol. ii. 645. Found by Mr. T. G. Lea, on one of the Kentucky hills opposite Cincinnati. Aug.-Sept. ☉? The leaves resemble in form, those of *Ostrya virginica*.
527. *Pachysandra procumbens*. June. *g-w*. Procumbent. 4. Ky. St.
528. *Tragia macrocarpa*. Jul. ☉. Climbing. Ky. *Michx*.

XCVIII. *CELASTRINEÆ*.—THE FALSE BITTER-SWEET TRIBE.

529. *Celastrus scandens*. False bitter-sweet. Red root. Climbing staff tree. May-June. *g--y*. Woody vine, 10 to 20f. Woods. Narcotic, secernant stimulant. It is regarded by Mr. Miles, a Thompsonian, as stimulating and diuretic, and capable of removing hepatic obstructions. Portio pulv. cort. radiceis, 3i. ter die.
530. *Euonymus atropurpureus*. Indian arrow. June. *p*. 6 to 10f. ½. sw. O. Has active medicinal virtues, if we credit popular opinion.
531. *E. americanus*. Burning bush. Spindle tree. June. *r-y*. 4 to 6f. ½. sw. Pittsburgh, *Peter*. Ky. St.
532. *E. obovatus*. Trailing euonymus. June. *g*. & *p*. Prostrate, 2 to 6f. long. sr. Ky. Wor. O. Root similar to that of sp. 529, and probably possesses similar qualities.

XCVI. *RHAMNEÆ*.—THE BUCKTHORN TRIBE.

533. *Rhamnus carolinianus*. May. 4 to 6f. Ky. St.
534. *R. alnifolius*. Dwarf elder. May-June. *g*. ½. rs. Mo. Ter. *Eat*.
535. *R. lanceolatus*. Shrub. Ky. St.
536. *Ceanothus americanus*. Red-root. New Jersey tea. Jul. *w*. 2 to 3f. ½. ow. dp. W. An Indian remedy for syphilis. Hoop. Med. Dic. Astringent. Raf. Med. Bot. ii. 205.
537. *C. sanguineus*. Bloody ceanothus. May. *w*. 3 f. ½. Plt. *Nutt*.
538. *C. intermedius*, *Pursh*. Dwarf red-root. Similar to 536, but much smaller. *Elliott*. Mo. Ter. *Jas*. Woods, Tenn. *Lyon*. *Pursh*, i. 167.

XCVII. *STAPHYLEACEÆ*.—THE BLADDER-NUT TRIBE.

539. *Staphylea trifolia*. Bladder-nut. Ap.-June. *w*. 6 to 10 f. ½. sw. sr. cr. W.



## XCVIII. HIPPOCASTANÆ.—THE HORSE-CHESNUT TRIBE.

540. *Æsculus glabra*, Willd. May. *y*—*w*. 10 to 30 f.  $\frac{1}{2}$ . Woods. Lexington, *Short*, Eat. Man. Banks of the Illinois, *Bk*. Probably identical with the next.
541. *Æ. ohioensis*, *Michx.* *A. pallida*, Willd. *ohioensis*, *Eat?* *Michx?* Buckeye. Fetid buckeye. *Calyx* half as long as the corol: *petals* 4, yellowish, claw shorter than the calyx: *stamens* twice as long as the petals: *pericarp* echinate: *leaves* in fives, lance-oblong, acuminate, serrulate, glabrous above, axils of the veins pubescent beneath: *bark* rough, cinereous. 40 to 50 f.  $\frac{1}{2}$ . bt. O. Ky. Emetic, narcotic, &c. *Dr. Drake*.
542. *Æ. flava*, *Ell. Bot. i. 436. Pursh.* *Æ. lutea*, *Linn?* *Eat?* Sweet buckeye. Upland buckeye. Ap. Pale *y*. 20 to 30 f.  $\frac{1}{2}$ . Pericarp smooth. Hills near large rivers, O. Ky.
543. *Æ.* On the Walnut Hills near Cincinnati, I find a species of *Æsculus* resembling the *flava*, but differing in the deep orange and yellow hue of its flowers, its glabrous, irregularly serrate leaves, and more acute divisions of the calyx. The buckeye (either the *flava* or *ohioensis*) is regarded as the emblem tree of Ohio.
544. *Æ. discolor*, *Pursh.* May. *y. w. & p.* 4 f.  $\frac{1}{2}$ . West Va. *Paddock*.

## C. SAPINDACEÆ.—THE SOAT-TREE TRIBE.

545. *Cardiospermum halicacabum*, Willd. Heart seed. Aug. O. Mo. Ter. *Jas.* Aperient, *Lind. Nat. Syst. 115.*

## CI. ACERINEÆ.—THE MAPLE TRIBE.

546. *Acer rubrum*, *Ehrh.* Red maple. Soft maple. Ap. *r.* 30 to 50 f.  $\frac{1}{2}$ . Woods. W. Bark astringent: used domestically in dying black.
547. *A. eriocarpum*, *Michx.* White maple. Silver maple. River maple. Ap.—May. *g.* Large tree. River banks. W.
548. *A. saccharinum*, *Linn.* Sugar maple. Hard maple. Ap.—May. *g-y.* 40 to 60 f. Woods W. Yields sugar and excellent fuel.
549. *A. nigrum*, *Michx.* Black maple. Sweet tree. Ap. *y-g.* 40 to 60 f. Very similar to the last. O.
550. *A. negundo*, *Linn.* Ash-leaved maple. Box elder. Ap. *g.* 30 to 60 f.  $\frac{1}{2}$ . bt. & W.
551. *A. striatum*, *Michx.* Striped maple. False dogwood. May. *g.* 15 f. Woods. Louisville, *M Murt.*—



For the medicinal virtues of the maples, see Raf. Med. Bot. ii. 185.

CIV. AMPELIDEÆ, De Cand.—THE VINE TRIBE.

552. *Vitis vulpina*, Linn. Winter grape. Frost grape. June. *w-g*. Woody vine. 5 to 50 f. River banks, bt. O. Ky. Fruit tart, Nov.
553. *V. æstivalis*, Michx. Summer grape. May-June. *w-g*. Woody vine, 5 to 50 f. sw. bt. Missouri banks, St. L. Bk. O. Fruit, Aug.
554. *V. labrusca*, Linn. Fox grape. Longworth's grape. June-July. *w-g*. Woody vine, 10 to 60 f. Woods, O. Ky. Cultivated in Ohio.
555. *V. riparia*, Michx. Fragrant flowered grape. July. *w-p*. Woody vine. Gravelly shores, Mich. Eat.
556. *Ampelopsis quinquefolia*, Michx. Common creeper. American ivy. June-Jul. *g*. Woody vine, 5 to 40 f. ow. rs. W. Admirable expectorant in pulmonary complaints. The vine. Mr. Lane of Norwalk, Ohio. Eberle, West. Med. Gaz. i.
557. *A. cordata*, Michx. Heart-leaved ivy. Ju.-Jul. Woody vine. Banks of streams. Alleghany Mountains, Eat. West to Ark. Bk.
558. *A. bipinnata*, Michx. June-July. Shrubby vine. Rich, damp soils. Ark. Jas.

CXIII. ANACARDIACEÆ.—THE CASHEW TRIBE.

559. *Rhus glabra*, Linn. Sumach. Smooth sumach. July. *g-y*. 6 to 12 f. *h*. Old fields, &c. W. Berries astringent, refrigerant. Am. Jour. Med. Sci. v. 61. Big. Med. Bot.
560. *R. copallina*, Linn. Mountain sumach. July. *y-g*. 3 to 12 f. *h*. Dry fields, Ky. St. Yields gum copal.
561. *R. aromatica*. Aromatic sumach. May-June. *y*. 2 to 6 f. *h*. bt. Calcareous regions. W. Medicinal?
562. *R. vernix*, Linn. Poison ash. June. *g-y*. 10 to 15 f. *h*. Margins of swamps. O. Stimulant, poisonous. Big. Med. Bot. i. 96.
563. *R. toxicodendron*, Linn. Poison vine. Poison ivy. June. *w-g*. 2 to 5 f. *h*. Woods. W. Stimulant, narcotic. Big. Med. Bot. iii. 19. Juice extremely poisonous.  
*b*. var. *radicans*, Torr. Climbing trees and rooting in their bark. 30 to 50 f. Supposed by some to cause the milk sickness.
564. *R. typhina*, Linn. Stag's horn. June. *g-y*. 10 to 15 f. rs. Louisville, *M Murt*.

CXIV. *XANTHOXYLÆ*.—THE PRICKLY ASH TRIBE.

565. *Xanthoxylum fraxineum*, Willd. Prickly ash. Ap. *g.* 3 to 5 f.  $\frac{1}{2}$ . Woods, W. Stimulant, diaphoretic, siagagogue, antirheumatic. Big. Med. Bot. iii. 156.
566. *Ptelea trifoliata*, Linn. Stinking prairie bush. Stinking ash. Swamp dogwood. Shrubby trefoil. June. *g-w.* 4 to 10 f.  $\frac{1}{2}$ . ow. dp. W. Said to cure intermittents. Doubtless actively medicinal.

CXXII. *GERANIACEÆ*.—THE GERANIUM TRIBE.

567. *Geranium maculatum*, Linn. Cranesbill. June. *p.* 8 to 15 i.  $\frac{1}{4}$ . Woods. Root astringent. Big. Med. Bot. i. 19.
568. *G. carolinianum*, Linn. Jul. *w & r.* 12 to 18 i.  $\frac{1}{2}$ . wp. Ill. riv. Bk.

CXXIII. *OXALIDÆ*.—THE WOOD-SORREL TRIBE.

The western plants of this order are acidulous and refrigerant, and may be used in fevers. Said to be antiscorbutic. Wood & Bache. 10.

569. *Oxalis stricta*, Linn. Wood-sorrel. May-Aug. *y.* 4 to 10 i.  $\odot$ . Sandy fields, &c. O. Ky.
570. *O. violacea*, Linn. Violet wood-sorrel. May-June. *p.* 4 to 6 i.  $\frac{1}{4}$ . Hills. rs. W.
571. *O. corniculata*, Linn. May-Aug. *y.* 6 to 10 i.  $\odot$ . Woods, sr. &c. O.
572. *O. recurva*, Ell. Ap.-May. *y.* 4 to 8 i.  $\odot$ . cf. rb. Mar. O.
573. *O. dillenii*, Willd. May. *y & p.* 6 to 18 i.  $\odot$ . Woods, O.

CXXVI. *BALSAMINÆ*.—THE BALSAM TRIBE.

574. *Impatiens pallida*, Nutt. Snap weed. Touch me not. False celandine. Aug. pale *y.* 2 to 4 f.  $\odot$ . Damp grounds. W. Diuretic, emetic. Raf. Med. Bot. ii. 231. Lind, 140.
575. *I. fulva*, Nutt. Jewel weed. Aug. *y & orange.* 2 to 3 f.  $\odot$ . Damp grounds, W. Medicinal, like the last.

CXXIX. *POLYGALEÆ*.—THE MILKWORT TRIBE.

576. *Polygala senega*, Linn. Seneca snakeroot. June-Jul. *w.* 1 f.  $\frac{1}{4}$ . Woods. O. Ky. Stimulant, diuretic, siagagogue, expectorant, purgative, emetic, sudorific, emenagogue! Bart. ii. 116. Big. ii. 97.
577. *P. ambigua*, Nutt. Jul. *p.* 8 to 10 i. Mar. O.
578. *P. alba*, Nutt. *w.* 6 i.  $\frac{1}{4}$ . Plains, Mo. Ter. Nutt.

579. *P. polygama*, Walt. Bitter polygala. June-July. *p.* 4 to 8 i. 4. Woods. Mich. Nutt. Medicinal, bitter. Big. Med. Bot. iii. 129.
580. *P. brevifolia*, Nutt. Jul.-Aug. *r.* ☉. Sandy swamps, O. Nutt.
581. *P. purpurea*, Nutt. Jul.-Aug. *p-r.* 12 to 18 i. ☉. Duncan's Plains, O.
582. *P. incarnata*, Linn. Milkwort. June-Jul. *r-p.* 12 to 18 i. ☉. Mich. Eat. Ky. St.
583. *P. verticillata*, Linn. Jul.-Oct. *g-w.* 8 to 12 i. ☉. Sandy soils. W. Bk. Ky. St.
584. *P. setacea*, Michx. Jul. ☉. Ky. St.
585. *P. pauciflora*, Willd. Flowering wintergreen. June. *p.* 3 to 4 i. 4. Woods, &c. Near Lake Huron, Bk.
586. *P. sanguinea*, Linn. Bloody polygala. June-Oct. *r.* 8 to 12 i. ☉. Dry soils, Louisville, M Murt.
587. *P. lutea*, Linn. Yellow polygala. June-Oct. *y.* 8 to 16 i. ♂. Pine barrens, &c. Louisville, M Murt.

CXXX. VIOLACEÆ.—THE VIOLET TRIBE.

Plants of this order possess emetic, cathartic, demulcent and expectorant qualities.

588. *Viola cucullata*, Ait. Common blue violet. May. *b.* 4 to 8 i. 4. Woods, O.
589. *V. pubescens*, Ait. Yellow wild violet. May. *y.* 6 to 8 i. 4. Woods, W.
590. *V. rostrata*, Muhl. Ap.-May. Pale *b.* 6 to 8 i. 4. Woods. rs. &c. Wor. O. Ky.
591. *V. affinis*, Le Conte. Prairie violet. May, Eat. Oct. *b-p.* 2 to 6 i. 4. wp. Van Cleve's Prairie, Dayton. Pick-away Plains, O. Ky.
592. *V. palmata*, Linn. Hand-leaf violet. May. *b-p.* 3 to 6 i. 4. Cin. O. Ky.
593. *V. sororia*, Willd. May. *b-p.* 4. Dry woods, Ky. St.
594. *V. sagittata*, Ait. Arrow-leaf violet. May. *p.* 4. Fields. West Va. Paddock. Ky. St.
595. *V. amœna*, Le Conte. Twisted violet. Ap. *w.* 4. Moist woods, Ky. St.
596. *V. blanda*, Willd. Smooth violet. Ap.-May. *w & p.* 2 to 4 i. 4. Wet meadows, &c. Ky. St. West of St. L. Bk.
597. *V. primulæfolia*, Linn. Ap.-May. *w.* 4. Wet woods, Ky. St.
598. *V. lanceolata*, Linn. Ap.-May. *w.* 3 to 8 i. 4. Swamps, Ky. St. Near Lake Huron, Bk.
599. *V. pedata*, Linn. May. Pale *b.* 3 to 5 i. 4. rs. Hills

- W. *Bk. Ky. St.* Medicinal. Wood & Bache, 668. Curtis Bot. Mag. 89.
600. *V. canadensis*, *Linn.* Canadian violet. *r, w & b.* 12 to 18 i. 4. ow. Fields. W. *Bk. Ky. St.* Cin. O.
601. *V. muhlenbergiana*, *De Cand.* Muhlenberg's violet. May. *b.* 6 to 10 i. 4. *Swamps, Ky. St.*
602. *V. ochroleuca*, *Schw.* *V. striata*, *Ait.* Striated violet. May. *y-w.* 6 to 10 i. 4. ow. bt. *Swamps, Bk. O. Ky.*
603. *V. heterophylla*, *Muhl.* Various-leaved violet. March. *p.* 8 to 12 i. 4. *Ky? St.*
604. *V. debilis*, *Michx.* March-Apr. *w.* 4. Louisville, *MMurt.*
605. *V. nuttalli*, *Pursh.* Nuttall's violet. May. *y.* 4 to 6 i. 4. Banks of the Missouri, *Pursh.*
606. *V. tenella*, *Muhl.* May. *b-w.* 2 to 4 i. 4. Sandy Hills, W. *Bk.*
607. *V. tricolor*, *Linn.* Pansy. Heart's ease. Garden violet. May. *p, y and p-b.* 3 to 8 i. Intr. Medicinal. Wood and Bache, 668.
608. *Solea concolor*, *De Cand.* Green violet. April-May. *g.* 2 to 4 f. 4. rs. sw. W. Medicinal?

CXXXI. PASSIFLOREÆ.—THE PASSION-FLOWER TRIBE.

609. *Passiflora lutea*, *Linn.* Yellow passion-flower. Aug. *y.* Delicate vine, 5 to 10 f. 4. Thickets, O. Ky.
610. *P. incarnata*, *Willd.* Flesh-colored passion-flower. May-July. *w & p.* Vine, 20 to 30 f. 4. Dry soils, Ky. *St.*

CXXXIV. CISTINEÆ.—THE ROCK-ROSE TRIBE.

611. *Lechea villosa*, *Ell.* Pin-weed. Jul. Flowers brown. 1 to 2 f. 4. Barren soil, Ky. *St.*
612. *L. minor*, *Pursh.* Smaller pin-weed. Jul. *g-p.* 8 to 10 i. 4. Dry hills, Ky. *St.*
613. *L. racemulosa*, *Michx.* Jul. 1 to 2 f. 4. Sandy situations, Mar. O. Ky.
614. *Hudsonia tomentosa*, *Nutt.* Silvery false heath. June. *y.* 6 i. 5. Sea shore usually. Mich. *Eal.*
615. *H. ericoides*, *Linn.* False heath. May-June. *y.* 4 to 6 i. 5. Pine barrens, *Bk.* Prairie near Middletown, O (?) Louisville, *MMurt.*
616. *Helianthemum canadense*. *Michx.* Rock-rose. Frost weed. June. *y.* 1 f. ow, &c. Sandy prairie near St. L. *Bk.*

CXXXVI. SARRACENIÆ

617. *Sarracenia purpurea*, *Linn.* Side-saddle flower. June-

July. *p.* 1 to 2 f. *4.* *bg.* Said to occur in the northern part of Ohio. Doubtful.

CXXXVII. *DROSERACEÆ*.—THE SUNDEW TRIBE.

618. *Drosera longifolia*, *Linn.* Long-leaved drosera. July–Aug. 2 to 4 i. *4.* Swamps. Near Lake Sup. *Hough. Ky. St.*  
 619. *D. rotundifolia*, *Linn.* Sundew. July. *w.* 4 to 8 i. *4.* Swamps. *Ky. St. Lk. Sup. Hough.* Acid, slightly acid. *Lind. 151.*

CXXXIX. *LINÆÆ*.—THE FLAX TRIBE.

620. *Linum virginanum*, *Linn.* Wild flax. July. *y.* 1 to 2 f. *○. rs. O. Ky.*  
 621. *L. perenne*, *Linn.* Perennial flax. Jul. *b.* 1 to 2 f. *4.* *Mo. Ter. Nutt.*  
 622. *L. rigidum*, *Linn.* *y.* 6 i. *Mo. Riv. Jas.*

CXL. *CARYOPHYLLÆÆ*.—THE CHICKWEED TRIBE.

§ I. *SILENÆÆ*. *Pink like.*

623. *Silene virginica*, *Linn.* Virginian catch-fly. May–June. *r.* (*purple* according to Beck.) 1½ to 3 f. *4.* *ow. bt. O.* Anthelmintic. *Lind. Nat. Syst. 154.*  
 624. *S. pennsylvanica*, *Michx.* Wild pink. May–June. *r.* 8 to 12 i. *4.* Sandy woods. *Mar. O. Ky. Mich.*  
 625. *S. regia*, *Linn.* Royal catch-fly. Jul. *r.* 2 to 3 f. *4.* *Prairies, O, Ky.*  
 626. *S. catesbæi*, *Walt.* June. *Crimson.* 1 f. *4.* *Penn. to Miss. Muhl.*  
 627. *S. rotundifolia*, *Nutt.* Round-leaved catch-fly. Jul. *r.* *rs. O. and Tenn. Nutt. Ky. St.*  
 628. *S. acaulis*, *Linn.* Jul. *r.* *4.* White Mountsins, N. H. west to the Rocky Mountains, *Bk.*  
 629. *Agrostemma githago*, *Linn.* Corn cockle. June–July. *p.* 1½ to 3 f. *○. cf. Intr.*  
 630. *Saponaria officinalis*, *Linn.* Soap-wort. Bouncing Bet. June–Sept. pale *r.* 12 to 18 i. *4.* *rd. rb. Miami country. Intr.* Acid, saponaceous, anti-venereal. *Eberle Mat. Med. ii. 220.*  
 631. *Cucubalus stellatus*, *Linn.* Star campion. Jul. *w.* 2 to 3 f. *4.* *cr. ow. O. Ky. Prairies, Ill. and Mo. Bk.*

§ 2. *ALSINÆÆ*. *Chick-weed like.*

632. *Sagina procumbens*, *Linn.* Pearl-wort. Jul. *w.* 2 to 4 i. *4.* Borders of streams, *W. Bk.*



633. *Spergula arvensis*, *Linn.* Corn spurrey. June–Aug. *w.* 6 to 12 i. ☉. Sandy fields. Intr. W. *Bk.*
634. *S. saginoides*, *Linn.* Pearl-wort spurrey. June. *w.* 2 to 4 i. ☉. Sandy fields. W. *Bk.* Very similar in appearance to sp. 632.
635. *Mollugo verticillata*, *Linn.* Carpet weed. Indian chickweed. July–Sept. *w.* Prostrate. cf. Sandy situations, W.
636. *Stellaria media*, *Smith.* Chickweed. March–Nov. *w.* Spreading, 3 to 6 i. ☉. rd. W.
637. *S. pubera*, *Michx.* Starwort. May. *w.* 6 to 10 i. 4? rs. W.
638. *S. palustris*, *Retz.* Stitchwort. June. *w.* 6 to 12 i. mh. Wor. O.
639. *S. uliginosa*, *Scrb.* Bog starwort. June. *w.* (4 to 6 i. ☉? Woods, cr. O)?
640. *S. longifolia*, *Muhl.* June. *w.* 12 to 15 i. 4. Moist woods, St. L. *Bk.*
641. *Cerastium nutans*, *Raf.* June. *w.* 6 to 12 i. ☉. rs. Hills, *Bk.* Banks of rivulets, Wor. O. Ky. Mich.
642. *C. vulgatum*, *Linn.* Mouse-ear chickweed. May–Aug. *w.* 6 to 10 i. ☉. Fields and hills. Intr. W.
643. *C. viscosum*, *Linn.* Sticky chickweed. May–Aug. *w.* 6 to 12 i. 4. rd. cf. Mich. *Eat.*
644. *C. hirsutum*, *Muhl.* Hairy chickweed. May. *w.* 4 to 8 i. ☉. Dry hills, Ky. *St.*
645. *C. arvense*, *Willd.* June. *w.* 6 i. 4. Ky. *St.*
646. *C. dichotomum*, *Muhl.* June. *w.* 9 i. ☉. Pittsburgh. *Peter.*
647. *C. oblongifolium*, *Torr.* June. *w.* 8 to 10 i. 4. Mountains, *Bk.* Mich. *Houghton.*
648. *Arenaria stricta*, *Michx.* Erect sandwort. May–June. *w.* 6 to 12 i. 4. Mountains, *Bk.* Mich. *Eat.* Ky. *St.*
649. *A. juniperina*, *Willd.* Juniper leaved sandwort. 4. Mich. *Eat.*
650. *A. serpyllifolia*, *Linn.* Thyme leaved sandwort. May–Jul. *w.* Decumbent, 3 to 8 i. ☉. Sandy fields, Ky. *St.*
651. *A. lateriflora*, *Linn.* Sandwort. June. *w.* 5 to 10 i. 4. md. Wor. O. Lk. Sup. *Hought.*
652. *A. obtusa*, *Torr.* 4. Mich. *Eat.*
653. *A. patula*, *Michx.* 4. Knoxville, Ky. *Michx.*

CXLIII. ELATINEÆ.—THE WATER-PEPPER TRIBE.

654. *Crypta minima*, *Nutt.* Mud purslane. May–Aug. *g-w.*

Prostrate, small. ☉? Banks of streams, throughout U. S. *Bk.*

CXLIV. *PORTULACÆÆ*.—THE PURSLANE TRIBE.

655. *Portulacca oleracea*, *Linn.* Purslane. May-Aug. *y.* Spreading, 6 to 18 i. ☉. cf. *Intr. W.* Indigenous to the plains of Mo. *Nutt.* Used as a potherb.  
 656. *Claytonia virginica*, *Linn.* Spring beauty. *Ap. w & r.* 6 to 12 i. 4. ow. md. *W.*  
 657. *C. lanceolata*, *Pursh.* June. *w.* 4. Louisville, *MMurt.*  
 658. *Talinum teretifolium*, *Pursh.* Taliny. Jul.-Sept. *p. 4* to 10 i. 4. rs. *St. L. Bk.* *St. Croix riv. Houghton.*

CXLVI. *GALACINÆÆ*.

659. *Galax rotundifolia*, *Michx.* May-Aug. *w.* 12 to 18 i. 4. Mts. Tenn. *Nutt.*

CXLVII. *CRASSULACÆÆ*.—THE HOUSE-LEEK TRIBE.

Possess refrigerant and abstergent properties. *Lind. Nat. Syst. 100.*

660. *Sedum ternatum*, *Michx.* False ice-plant. June. *w.* 2 to 3 i. 4. rs. cr. *W.*  
 661. *S. pulchellum*, *Michx. p.* 3 to 4 i. *Ky. St.*  
 662. *Penthorum sedoides*, *Linn.* Virginian stone crop. Virginian orpine. Jul.-Aug. Pale *y.* 12 to 18 i. 4. rb. bt. *W.*

CL. *ILLECEBREÆ*.

663. *Queria canadensis*, *Linn.* Forked chickweed. Jul.-Aug. *w.* 6 to 12 i. ☉. ow. sw. *O. Ky.*  
 664. *Q. argyrocoma*, *Muhl.* June. rs. *Tenn. Nutt.*  
 665. *Q. sessiliflora*, *Nutt.* Jul. Hills Mo. *Ter. Nutt.*

CLI. *AMARANTACÆÆ*.—THE AMARANTH TRIBE.

666. *Amarantus albus*, *Willd.* White cockcomb. Jul. *g-w.* 18 i. ☉. Gardens, cf. *O.*  
 667. *A. hybridus*, *Willd.* Jul. *g.* 1 to 2 f. ☉. cf. rd. *O.*  
 668. *A. græcizans*, *Willd.* Aug. *g.* ☉. Louisville, *MMurt.*  
 669. *A. altissimus*, *mihi.* Tall amaranth. *Spikes* lax, simple when axillary, compound when terminal: *leaves* ovate-oblong, mucronate, acute at the base, long petioled: *stem* branching above, 6 to 8 f. Flowers reddish green. Aug. ☉. On an old prairie, near Hamilton, *O.*  
 670. *A. miamiensis*, *mihi.* Prairie amaranth. *Spikes* rather lax, axillary and terminal, compound: *leaves* ovate and lance-ovate, retuse, mucronate, acute at the base: *pe-*

*tiol*es nearly as long as the leaves. Very branching, 2 to 3 f. ☉. Flowers *r* & *g*. Hoffman's prairie, near Dayton, O. I give these as merely temporary names, until the plants shall be further investigated.

671. *Iresine celosioides*, Willd. Sept.-Oct. *w*. 3 to 4 f. ☉. *rb.* & *c*. Cin. O. Ky.

### CLIII. CHENOPODEÆ.—THE GOOSEFOOT TRIBE.

672. *Chenopodium album*, Linn. Lamb's quarter. Pigweed. Jul.-Aug. *g*. 2 f. ☉. *cf.* *rd.* W. A potherb.
673. *C. rhombifolium*, Muhl. June. *g*. 2 to 3 f. *cf.* *rd.* Wor. O.
674. *C. anthelminticum*, Linn. Worm-seed. Aug. *g*. 18 to 24 i. 4 Fields, Ky. O. Anthelmintic. Bart. ii. 187.
675. *C. ambrosioides*, Linn. Sweet pigweed. Aug.-Sept. *g*. 18 to 24 i. 4. ☉. *rd.* O. Tonic, anthelmintic. Lind. 192.
676. *C. botrys*, Linn. Jerusalem oak. Jul.-Sept. *g*. 12 to 16 i. ☉. *rd.* Ky. O. Pectoral. Hoop. Dic.
677. *C. hybridum*, Linn. Jul.-Aug. 2 to 3 f. ☉. *rd.* Ky. Intr.
678. *C. maritimum*, Linn. Aug.-Sept. 18 to 24 i. ☉. Salt meadows usually. Plains of the Mo. riv. Nutt.
679. *Atriplex canescens*, Nutt. May. 3 to 4 f. Saline hills, Mo. Ter. Nutt. Mo. Bk.
680. *A. argentea*, Nutt. Silver-leaforach. 1 f. ☉. Plt. Jas.
681. *A. patula*, Linn. Aug. Prostrate, 1 to 2 f. ☉. Louisville, M Murt.
682. *A. hortensis*, Linn. Garden orach. Jul. *g*. 3 to 4 f. ☉. *cf.* O. Intr. A potherb.
683. *Aenida cannabina*, Linn. Water hemp. Jul.-Aug. *g*. 3 to 6 f. ☉. *mh.* Ky. St.
684. *Corispermum hyssopifolium*, Willd. Aug. ☉. Plt. Jas. Nutt.
685. *Blitum capitatum*, Linn. Strawberry blite. Indian. strawberry. June. 15 i. ☉. Fields, & *c*. N. W Ter. Houghton.
686. *B. chenopodioides*, Nutt. ☉. Dry situations. Plt, Jas.
687. *B. virgatum*, Linn. Slender blite. June. ☉. Fields. Intr. Louisville, M Murt.
688. *Kochia dioica*, Nutt. May. 6 to 12 i. ☉. Mo. Ter. Nutt.
389. *K. dentata*, Willd. June. ☉. Plt. Jas.
690. *Diotis lanata*, Pursh. June. 5. Arid situations on the banks of the Missouri, Nutt.
691. *Polycnemum americanum*, Nutt. 4. Plt. Jas. Mo. Ter. Nutt.

## CLIV. PHYTOLACCEÆ.—INDIAN POKE TRIBE.

692. *Phytolacca decandra*, *Linn.* Indian poke. Poke-weed. Scape-weed. June–Oct. *w.* 4 to 8 f. *℥.* 4. *ow.* &c. *W.* Emetic, antirheumatic, anti-schirrous? *Bart. Med. Fl.* ii. 220.

## CLVI. POLYGONEÆ.—THE BUCK-WHEAT TRIBE.

693. *Polygonum aviculare*, *Linn.* Knot grass. May–Sept. *g.* Procumbent, 6 to 8 i. *⊙*, *Bk.* 4, *Eat.* *rd.* *W.* Astringent, styptic. *Hoop. Dic.*
694. *P. erectum*, *Muhl.* Large knot grass. Aug. *g.* 8 to 30 i. *℥.* cf. *rd.* *W.* Resembles the preceding.
695. *P. virginianum*, *Linn.* Virginian bistort. Jul.–Aug. *w* & *r.* 2 to 4 f. *℥.* *sw.* *W.* Astringent, &c.
696. *P. punctatum*, *Ell.* Water pepper. Smart weed. Aug.–Sept. *w.* 1 to 2 f. *⊙.* *rb* &c. *O. Ky.* Acrid, emenagogue, diuretic. *Eberle, West. Med. Gaz.* i. *Hoop. Dic.*
697. *P. persicaria*, *Linn.* Ladies' thumb. Jul.–Aug. *r.* 12 to 18 i. *⊙.* Wet grounds, *O. Ky.* Vulnerary, antiseptic. *Hoop. Dic.*
698. *P. lapathifolium*, *Linn.* Aug.–Sept. *w* or pale *r.* 2 to 3 f. *⊙.* Ditches, &c. *O.* This, and the two preceding species, I believe, are used in dying yellow.
699. *P. mite*, *Pers.* Tasteless knot-weed. Jul.–Sept. *p.* 12 to 18 i. *⊙.* *mh.* *pl.* Darby plains, *O.*
700. *P. pennsylvanicum*, *Linn.* Jul.–Sept. *w*–*r.* 2 to 4 f. *⊙.* Margins of ponds. *O. Ky.*
701. *P. barbatum*, *Willd.* Jul. *r*–*w.* 18 to 24 i. Louisville, *M. Murt.* Seeds carminative. *Ainslie*, ii. 2.
702. *P. bistortoides*, *Pursh.* June. *w*–*r.* 4. Low grounds on the banks of the Missouri, *Lewis.*
703. *P. amphibium*, *Linn.* Amphibious knot-weed. Aug. *r.* 12 to 18 i. *℥.* *pl.* *mh.* *O. Ky.*
704. *P. coccineum*, *Willd.* Creeping knot-weed. Aug. *r.* Creeping, 6 to 12 f. *Eat.* 4. Muddy situations. *rb.* *O.*
705. *P. hirsutum*, *Walt.* Jul. *w.* 2 f. *O.* (*rb.* Mar. *O.*)?
706. *P. articulatum*, *Linn.* Joint-weed. Sept. *r* & *w.* *⊙.* 9 to 15 i. Sandy plains, *Mich. Nutt.*
707. *P. sagittatum*, *Linn.* Prickly knot-weed. Arrow-leaf knot-weed. July–Aug. *w.* Vine, 4 to 6 f. *⊙.* *md.* *wp.* *W.*
708. *P. arifolium*, *Linn.* Halbert-leaf knot-weed. Aug.–Sept. Pale *r.* 2 to 4 f. *⊙.* *mh.* *md.* *wp.* *W.*
709. *P. scandens*, *Linn.* Climbing buck-wheat. Jul.–Aug. *w* & *r.* Vine, 4 to 8 f. *⊙.* *sw.* Hedges, *W.*

710. *P. convolvulus*, *Linn.* Bind-weed. Jul.-Sept. Reddish w. Vine, 6 to 8 f. ☉. cf. *Mo. Bk. O.*
711. *P. fagopyrum*, *Linn.* Buck-wheat. June. r-w. 1 to 2f. ☉. cf. Ohio banks. *Intr.*
712. *Brunnichia cirrhosa*, *Michx.* Ap.-May. Climbing. 4. Wet places among bushes. Islands, Tenn. *Pursh.*
713. *Eriogonum sericeum*, *Pursh.* Jul. y. 4. Prairies of Missouri, *Nutt.* (*Pursh. i.* 277.)
714. *Calligonum canescens*, *Pursh.* June. 5. Plains of the Mo. near the Big-bend, *Pursh.*
715. *Rumex sanguineus*, *Linn.* Bloody dock. June-Jul. 2 f. 4. rd. Fields. *Intr. O. Ky.*
716. *R. crispus*, *Linn.* Curled dock. June-Jul. 2 to 3 f. 4. Fields. *Intr. O. Ky.* This and the three following species, are astringent, tonic, alterative and antiscorbutic. Wood & Bache, 545.
717. *R. brittanicus*, *Linn.* Yellow-rooted water dock. June-Jul. 3 f. 4. Swamps, W. Medicinal. See 716.
718. *R. aquaticus*, *Linn.* Water dock. Jul.-Aug. 3 to 4 f. 4. Ponds and ditches. Wor. O? Med. See 716.
719. *R. obtusifolius*, *Linn.* Blunt-leaf dock. Jul. 2 to 3 f. ow. Fields. *Intr. Mar. O. Med.* See 716.
720. *R. persicarioides*, *Linn.* June-Jul. 6 to 12 i. ☉. sw. Damp places, Ky. *St.*
721. *R. acetosella*, *Linn.* Sorrel. Sheep sorrel. June-Jul. 6 to 12 i. cf. rd. W. Refrigerant, diuretic, antiscorbutic. Wood & Bache, 9.
722. *R. venosus*, *Pursh.* Ap. 1 f. 4. Sandy banks, *Plt. Nutt.*
723. *R. crispatus*, *Michx.* Ky. *Michx.*
724. *R. verticillatus*, *Walt.* June. 2 to 3 f. 4. (Mh. Swamps, O.)?
725. *R. acutus*, *Linn.* June. 2 to 3 f. 4. Moist grounds, Louisville, *MMurt. Intr.*

CLVIII. *NYCTAGINEÆ*.—THE MARVEL OF PERU TRIBE.

- The roots of these plants are more or less purgative. *Lind.*
726. *Alliona abida*, *Walt.* Ap. ☉? Mo. Ter. *Nutt. N. W.* Ter. *Houghton.*
727. *A. nictaginea*, *Michx.* Jul. 4. Common on the alluvions of the Missouri. *Nutt.*
728. *A. linearis*, *Pursh.* *Plt. Jas.*

CLIX. *SAURURÆ*.—THE SWAMP LILY TRIBE.

729. *Saururus cernuus*, *Linn.* Swamp lily. Lizard's tail. Breast weed. Aug. w. 1 to 2 f. 4. rb. mh. &c. W. Medicinal?



CLXIII. *PODOSTEMEÆ*.—THREAD-FOOT TRIBE.

730. *Podostemum ceratophyllum*, *Michx.* Thread foot. Jul. 4. Closely attached to loose stones in shallow water of the Ohio and Kentucky rivers. *Pursh.*

CLXV. *CERATOPHYLLÆ*.—THE HORNWORT TRIBE.

731. *Ceratophyllum demersum*, *Linn.* Hornwort. Coontail. Jul. Submersed. 1 to 2 f. 4. pl. O.  
732. *C. submersum*, *Linn.* Jul. Submersed. 4. pl. Wor. O.

Division 2.—Monopetalous plants.

CLXVI. *ILICINEÆ*.—THE HOLLY TRIBE.

733. *Ilex opaca*, *Ait.* American holly. June. w. 10 to 15 f. ½. Sandy woods. Ky. *St.*  
734. *Prinos verticillatus*, *Linn.* Winter berry. False alder. June–Jul. w. 6 to 8 f. ½. Swamps, &c. O. The bark and berries are astringent, tonic, antiseptic. *Bart. i.* 203. *Big. iii.* 141.  
735. *P. lævigatus*, *Pursh.* Jul. 6 to 8 f. ½. Swamps. Mo. *Ter. Jas. W. Bk.*  
736. *P. lanceolatus*, *Pursh.* June. ½. (6 to 8 f. Barrens. wp. Duncan's plains, near Columbus, O.)?

CLXIX. *SAPOTEÆ*.—THE SAPPODILLA TRIBE.

737. *Bumelia oblongifolia*, *Nutt.* ½. 18 f. Lead mines near St. Louis. *Nutt.*

CLXX. *ERICEÆ*.—THE HEATH TRIBE.

§1. *Ericææ*.—HEATH LIKE.

738. *Arbutus uva-ursi*, *Linn.* Bear-berry. Ap.–May. Pale r. Evergreen, trailing vine. ½. Mts. *Bk.* Sandy situations. Presque Isle, Lake Erie. About the Great Lakes. *Schoolcraft.* Astringent, antilithic. *Big. Med. Bot. i.* 66.  
739. *Gaultheria procumbens*, *Linn.* Spicy wintergreen. May–Jul. w. Creeping evergreen. 4 to 6 i. 4. Woods. rs. O. Ky. Stimulating, anodyne. *Bart. i.* 78. *Big. ii.* 27. Also astringent, emanagogue, antiseptic and diaphoretic. *Beach's Mat. Med.*  
740. *G. hispidula*, *Muhl.* Creeping wintergreen. Ap.–May. w. Creeping, evergreen. ½. Properties similar to the last?  
741. *Andromeda arborea*, *Linn.* Sorrel tree. Jul. w. 40 f. ½. Mar. O. Ky. Refrigerant, &c. *Raf. Med. Fl.* Leaves taste much like sorrel.

742. *A. polifolia*, Michx. Wild rosemary. June. *w* & *r*. 1 f.  
 ♀. Sphagnous swamps. Mich. *Eat*.  
 743. *A. calyculata*, Linn. Ap.—May. *w*. 3 to 4 f. ♀. Swamps.  
 Louisville. *MMurt*.  
 744. *A. mariana*, Linn. June—Jul. *w* and pale *r*. 2 to 3 f.  
 ♀. Sandy soils. Louisville. *MMurt*.  
 745. *A. racemosa*, Michx. June—Jul. *w*. 4 to 6 f. ♀. Swamps  
 and wet woods. Louisville. *MMurt*.

§2. *Rhodoraceæ*.—ROSE BAY LIKE.

746. *Rhododendron maximum*, Linn. American rose bay.  
 June—Jul. Pale *r*. 10 to 15 f. ♀. Swamps. bg. Ky.  
*St*. Stimulant, narcotic, &c. Big. Med. Bot. iii. 101.  
 747. *Kalmia latifolia*, Linn. Mountain laurel. Calico bush.  
 June—Jul. Rose coloured flowers. 4 to 10 f. ♀. Hills,  
 &c. O.Ky. rs. Stimulant, narcotic, &c. Big. Med.  
 Bot. i. 133.  
 748. *K. glauca*, Ait. Glaucous kalmia. June—Jul. Pale *r*. 12  
 to 18 i. ♀. Sphagnous swamps, Mich. *Eat*.  
 749. *K. angustifolia*, Linn. Sheep laurel. June—Jul. *r*. 12  
 to 18 i. ♀. Sandy woods. Louisville. *MMurt*.  
 750. *Azalea nudiflora*, Willd. Early honeysuckle. May. *r*.  
 2 to 6 f. ♀. Ky. *St*.  
 751. *A. viscosa*, Willd. White honeysuckle. June. *w*. 5 f.  
 ♀. Louisville. *MMurt*.  
 752. *Epigæa repens*, Linn. Trailing arbutus. Ground laurel.  
*w* & *r*. Trailing evergreen. ♀. Pine hills. Newark,  
 O. Ky.

CLXXII. *VACCINÆÆ*.—THE BILBERRY TRIBE.

The bark and leaves of these shrubs, are astringent, slightly tonic and stimulant. *Lind*.

753. *Vaccinium stamineum*, Linn. Deer berry. May—June.  
*w*. 2 to 3 f. ♀. Dry woods. rs. O. Ky. Used by some  
 as a substitute for *Arbutus uva-ursi*. Mr. Miles,  
 (page 86 of his Domestic Remedies,) says that this  
 plant possesses diuretic, tonic and slightly astringent  
 properties.  
 754. *V. resinolum*, Ait. Black whortleberry. May—June.  
 Reddish *g*. 2 to 4 f. ♀. Woods and hills, Ky. *St*.  
 755. *V. corymbosum*, Linn. High wortleberry. June. Pur-  
 plish *w*. 4 to 8 f. ♀. Swamps and wet woods, O. Ky.  
*St*.  
 756. *V. frondosum*, Linn. Whortleberry. Blue tangles. Ju.  
*w*. 3 to 5 f. ♀. Sandy woods, Ky. *St*.

757. *Oxycoccus macrocarpus*, *Pursh*. Cranberry. June. *w*, or pale *r*. Prostrate.  $\frac{1}{2}$ . *bg*. Near Lake Erie. The fruit possesses an agreeable tartness. Immense quantities are collected near the Lakes.

CLXXIII. *PYROLACEÆ*.—THE WINTERGREEN TRIBE.

758. *Pyrola rotundifolia*, *Linn*. Round-leaved wintergreen. Shin-leaf. July. *w*. 10 to 14 i.  $\frac{1}{4}$ . Woods. O.  
 759. *P. elliptica*, *Nutt*. July–Aug. *w*. 6 to 10 i.  $\frac{1}{4}$ . Dry woods, O.  
 760. *P. minor*, *Linn*. June.  $\frac{1}{4}$ . Mich. *Eat*.  
 761. *Chimaphila umbellata*, *Pursh*. *Eat*. Pipsissawa. Prince's pine. July. *g-w* and *p*. 4 to 6 i.  $\frac{1}{4}$ . Woods. Northern part of Ohio? Diuretic, tonic, vesicatory. Bart. i. 28. Big. ii. 15.  
 762. *C. maculata*, *Pursh*, *Linn*. Spotted wintergreen. July. *r-w*. 3 to 4 i.  $\frac{1}{4}$ . Sandy woods. Hills. O. Medicinal virtues similar to the preceding, though not so much concentrated.  
 763. *Monotropa uniflora*, *Linn*. Indian pipe. June. *w*. 5 to 8 i.  $\frac{1}{4}$ . *sw*. O. Ky.  
 764. *M. lanuginosa*, *Michx*. Tobacco-pipe. Aug. *w*. 4 to 6 i.  $\frac{1}{4}$ . Roots of trees. Ky. *St*. West Virginia. *Paddock*.

CLXXIV. *CAMPANULACEÆ*.—THE BELL-FLOWER TRIBE.

765. *Campanula americana*, *Linn*. Wheel-flower. July–Aug. *b*. 2 to 4 f.  $\frac{1}{4}$ . Thickets. O. Ky.  
 766. *C. amplexicaulis*, *Michx*. Clasping bell-flower. May–July. *p*. 8 to 12 i.  $\odot$ . Fields. W.  
 767. *C. aparinoides*, *Pursh*. Prickly bell-flower. June–July. *w*. 1 f.  $\odot$ . *wp*. O.

CLXXV. *LOBELIACEÆ*.—THE LOBELIA TRIBE.

768. *Lobelia cardinalis*, *Linn*. Cardinal flower. July–Aug. *r*. 2 to 3 f.  $\frac{1}{4}$ . Wet woods. O. Ky. Acrid, anthelmintic. Bart. ii. 180.  
 769. *L. syphilitica*, *Linn*. Blue cardinal flower. Sept. *b & w*. 2 to 3 f.  $\frac{1}{4}$ . *wp*. *ow*. *bg*. O. Ky. Diuretic, purgative, anti-syphilitic. Bart. ii. 211.  
 770. *L. puberula*, *Michx*. Sept. *b*. 2 to 3 f.  $\frac{1}{4}$ . *mh*. *bg*. O. Ky.  
 771. *L. inflata*, *Linn*. Indian tobacco. Aug. Pale *b*. 1 f.  $\odot$ . Fields and woods. W. Emetic, sudorific, expectorant. Bart. i. 189. Big. i. 177. Beach's Mat. Med.

772. *L. claytoniana*, Michx. Clayton's lobelia. Jul.-Aug. Pale b. 1½ to 2 f. 4. dp. wp. O. Ky.  
 773. *L. kalmii*, Linn. Kalm's lobelia. Jul.-Aug. b. 12 to 20 i. 4. wp. O.

## CLXXXI. CUCURBITACEÆ.—THE GOURD TRIBE

774. *Momordica echinata*, Muhl. Balsam apple. Aug. w. Climbing. O. Banks of streams. O. Mich. Mo. Riv.  
 775. *Sicyos angulatus*, Linn. Single-seeded cucumber. June-Jul. w-g. Procumbent vine. O. bt. Banks of streams, W.

## CLXXXII. PLANTAGINEÆ.—THE RIB-GRASS TRIBE

776. *Plantago cordata*, Lam. *P. asiatica*, Spreng? June-Jul. 12 to 18 i. 4. rb. Banks of streams. W.  
 777. *P. media*, Linn. Jul. 3 to 8 i. 4. Fields. Miami country.  
 778. *P. major*, Linn. Common plantain. Aug. 8 to 12 i. 4. Fields. Intr. W. Healing, refrigerant, antiseptic. Beach. Other species have similar virtues.  
 779. *P. glabra*, Nutt. Arid situations. Plt. Jas. German-town, O. Frank. Mar. Wor. O?  
 780. *P. lanceolata*, Linn. Rib-wort. Snake plantain. May-Sept. 6 to 12 i. 4. Pastures, &c. Intr. Ky. St. Opposite Cin. O.  
 781. *P. virginica*, Linn. Dwarf plantain. June. 3 to 8 i. 4. Sandy soils. Ky. St.  
 782. *P. pusilla*, Nutt. June. 2 to 3 i. O. Sandy hills. W. Bk. Mo. Ter. Nutt.  
 783. *P. gnaphalioides*, Nutt. Jul. O. Mo. Ter. Nutt.

## CLXXXIV. DIPSACEÆ.—THE SCABIOUS TRIBE.

784. *Dipsacus sylvestris*, Linn, Wild teasel. Jul. p. or b. 3 to 5 f. 4. Fields. bt. W.

## CLXXXV. VALERIANEÆ.—THE VALERIAN TRIBE.

785. *Valeriana pauciflora*, Nutt. i. 20. Western valerian. r. 1½ to 3 f. 4. sw. bt. W. Tonic, antispasmodic, vermifugal(?)  
 786. *Valerianella radiata*, De Cand. Wild lamb lettuce. May. w. 1 f. O. Fields, W.  
 787. *V. chenopodifolia*, Pursh, De Cand. 8 i. O. Open woods and meadows, Miami country. Frank.

CLXXXVI.—COMPOSITÆ.

SUB-ORDER I.—CICHORACEÆ.—Generally lactescent.

Tribe 1. *Hieraceæ*.—Hawkweed like.

788. *Hieracium venosum*, Linn. Veiny hawkweed. Blood-wort. Jul.—Aug. y. 1 to 2 f. 4. sw. W. This and other plants of the genus are doubtless possessed of bitter, astringent, and narcotic qualities.
789. *H. paniculatum*, Willd. Jul.—Sept. y. 1 to 2 f. Bk. 2 to 4 f. Eat. 4. Woods. Ky. St. West Va. Paddock. O.
790. *H. gronovii*, Linn. Jul.—Aug. y. 2 to 3 f. 4. Dry woods. Ky. St.
791. *H. marianum*, Willd. Rough hawkweed. Jul.—Aug. y. 2 f. 4. Woods. Ark., &c. Jas.
792. *H. runcinatum*, Jas. 1 f. Plt. Jas.
793. *Prenanthes alba*, Linn. White lettuce. Aug. y-w. 5 f. 4. Woods. sr. O. Ky.
794. *P. serpentaria*, Pursh. Lion's foot. Aug. p. 2 to 4 f. 4. sw. O. Ky. It is said to cure the bite of the rattlesnake.
795. *P. illinoensis*, Pers. Sept. Flowers sulphur colour. 2 to 4 f. 4. dp. Brushy Prairie, Dayton, O. Prairies of Illinois. Michx.
796. *P. racemosa*, Michx. Sept. y. 2 to 4 f. 4. wp. dp. Duncan's Plains, O.
797. *P. altissima*, Linn. Sept. y. 4 to 8 f. 4. Mich. Eat.
798. *P. juncea*, Pursh. 4. Plt. Jas.

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\*One of the most extensive orders in the vegetable kingdom, and one which botanists have at all times found much difficulty in subdividing. Jussieu, the originator of the present natural method of botany, elevated his three divisions of this great tribe to the rank of distinct orders; but in view of their close resemblance and intimate relation, later botanists very justly object to this arrangement. Considered as sub-orders, they are quite as philosophic and satisfactory as any that have been proposed. In arranging the western species of compositæ, I follow Professors Torrey and Beck in adopting the classification of M. Don, which, though it does not differ very essentially from that of Jussieu, has the advantage of subdividing this extensive order into a greater number of natural groups. The *Carduaceæ* of Don, are nearly equivalent to the *Cinarocephalæ* of Jussieu:—the *Cichoraceæ* of both authors are the same. The *Corymbiferaæ* of Jussieu have by Don been made to constitute several distinct sub-orders. *Corymbiferaæ* are generally tonic and seccernant stimulant, *Cinarocephalæ* tonic and often cathartic, *Cichoraceæ* aperient and anodyne.



799. *P. crepidinea*, Michx. Sept. Pale y. 4 to 6 f. 4. New fields. Thickets. Wor. O. Ky. St.
800. *P. deltoidea*, Ell. Sept. y. 2 f. 4. Ky. St.
801. *P. miamiensis*, mihi. Leaves of the involucre (calyx) 8, inclosing 15 florets: flowers nodding, pale purple, in bundles of 5 to 8, paniced: lower leaves on long petioles, (3 to 6 i.) deltoid, acuminate, irregularly dentate, near 7 inches long by 6 in width: upper leaves ovate, attenuate at the base, with one or two lateral teeth: stem branching above. 5 to 8 f. high. Whole plant glabrous. Sept. 4. Thickets near Dayton, O.
802. *P. ovata*, mihi. Involucre purple, near 7-leaved, 10 to 12-flowered: flowers nodding, glabrous, in a terminal raceme, with 2 to 4 in a bunch: petals white: lower leaves on long petioles, (2 inches.) ovate, acute attenuate at the base, entire, glabrous above, slightly pubescent beneath: upper leaves lance-ovate, nearly sessile: stem simple, glabrous, 1½ to 2 f. 4. dp. Brushy Prairie, Dayton, O. Flowers in Sept.
803. *P. parviflora*, mihi. Involucre green, 5-leaved, 5-flowered: flowers very small, in axillary bundles of 2 to 5, and in a small, terminal panicle, nodding, glabrous: leaves generally decurrent into long petioles, denticulate, acuminate, sub-pubescent beneath: radical leaves large, (6 inches long by 5 in width,) deltoid, rather coarsely dentate: lower cauline leaves hastate-sagitate: middle ones irregularly cordate; upper ones ovate: stem simple, 2 to 4 f. 4. Slaty ravines, Worthington, O. Flowers in Aug.
804. *P. proteophylla*, mihi. Protean-leaved prenanthes. Involucre greenish purple, 8 or 9-leaved, 10 or 11-flowered: flowers nodding, in a racemose, terminal panicle; and in axillary bundles of 2 to 4: leaves petioled, glabrous, acute, 2 to 4 inches long: general outline mostly ovate; varying indefinitely from anomalous projections, and irregular gashes: stem simple, 2 to 3 f. 4. Calcareous ravine on the Scioto, near Dublin, O. Rare. Flowers in Sept.

Tribe 2. *Taraxaceæ*.—Dandelion like.

805. *Leontodon taraxacum*, Linn. Dandelion. Ap.—Nov. y. 6 to 12 i. 4. Pastures, &c. Intr. W. Tonic, diuretic, aperient, hepatic deobstruent. Wood and Bachc, 635. British Med. Fl.
806. *Krigia amplexicaulis*, Nutt. Claspimg dandelion. June. y. 1 f. 4. Wet woods. Mich. Eat. Ohio. Eberle. West Va. Paddock.

807. *K. virginica*, *Linn.* Dwarf dandelion. May–Aug. Deep y.  $\odot$ . 2 to 8 i. Arid soils. Louisville. *MMurt.*  
 808. *Troximon glaucum*, *Pursh.* Jul. y.  $\mathfrak{f}$ . Mo. Ter. *Nutt.* Rare.  
 809. *T. cuspidatum*, *Pursh.* May. y. Grassy plains on the Missouri. *Nutt.*

*Tribe 3. Lactuceæ.*—Lettuce like.

810. *Lactuca elongata*, *Muhl.* Wild lettuce. Milkweed. Fire-weed. Aug.–Sept. y. 3 to 6 f.  $\mathfrak{f}$ . Newly cleared lands. Thickets. Ky. O. Sedative, laxative, diuretic, diaphoretic. Wood and Bache, 381.  
 811. *L. integrifolia*, *Big.* Jul. y. 3 to 4 f.  $\mathfrak{f}$ . rd, &c. Mo. Ter. *Nutt.* Near Cin. O. Properties like the last?  
 812. *L. hirsuta*, *Nutt.* Aug. y & p.  $\mathfrak{u}$ . O?  
 813. *L. canadensis*, *Linn.* *Sonchus pallidus*, *Pursh.* Canadian milkweed. Jul.–Sept. y. 2 to 3 f.  $\mathfrak{u}$ . Woods. rd. Miami country. Medicinal? like 810.  
 814. *L. villosa*, *Jacq.* *Sonchus acuminatus*, *Willd.* Aug.–Sept. p. 3 to 4 f.  $\mathfrak{f}$ . sw. Miami country. Medicinal?  
 815. *L. ludoviciana*, *mihi.* *Sonchus ludovicianus*, *Nutt.* June. y. 3 to 5 f.  $\mathfrak{u}$ . Humid places. Mo. Ter. *Nutt.* O. Ky. I have not the means of ascertaining where this species is placed by Don.  
 816. *Agathysus leucophæus*, *Don.* Jul.–Sept. Bluish w. 2 f.  $\mathfrak{f}$ . rd. ow. Louisville. *MMurt.* Miami country.  
 817. *A. floridanus*, *Don.* Gall of the earth. Jul.–Sept. b. 3 to 5 f.  $\mathfrak{f}$ . ow. rd. O. A reputed cure for the bite of the rattlesnake.  
 818. *A. macrophyllus*, *Don.* Aug.–Sept. b. 4 to 7 f.  $\mathfrak{u}$ . Humid situations. Miami country.  
 819. *Sonchus oleraceus*, *Linn.* Sow thistle. Jul.–Sept. y. 2 to 4 f.  $\odot$ . Waste grounds. cf. Intr. W.  
 820. *S. arvensis*, *Linn.* Jul. y. 2 f.  $\mathfrak{u}$ . cf., &c. Intr. O.  
 821. *S. spinulosus*, *Big.* Native sow thistle. Aug. y. 2 f.  $\odot$ . Salt marshes. *Bk.* Woods. rd. &c. Ky. St. Miami country.

*SUB-ORDER II. CARDUACEÆ.*—The thistle and its allies.

822. *Arctium lappa*, *Linn.* Burdock. Jul.–Aug. p. 3 to 4 f.  $\mathfrak{u}$ . Waste grounds. Intr. W. Aperient, diaphoretic, alterative. Wood and Bache, 105. Eberle. Beach.  
 823. *Carduus lanceolatus*, *Linn.* Common thistle. Sept. p. 2 to 4 f.  $\mathfrak{u}$ .  $\mathfrak{f}$ . rd. &c. W.  
 824. *C. altissimus*, *Linn.* Tall thistle. Sept. p. 3 to 8 f.

- (12 to 18 f. on the Missouri. *Nutt.*) 4. ow. Old fields. W.
825. *C. virginanus*, *Willd.* Virginian thistle. Jul.-Sept. *p.* 2 to 3 f. 4. Woods. O. Ky.
826. *C. glutinosus*, *Bk.* Balsam thistle. Aug.-Sept. *p.* 4 to 6 f. ♂. wp. dp. O.
827. *C. discolor*, *Nutt.* Jul.-Sept. *p.* 3 to 8 f. ♂. (Margins of swamps. 3 to 6 f. Jul.-Aug. *Bk.*) dp. Middletown, O.
828. *C. muticus*, *Nutt.* Aug.-Sept. *p.* 2 to 4 f. ♂. Mts. and low grounds. *Bk.* Mich. *Eat.*
829. *C. pitcheri*, *Torr.* 18i. Near Lakes Huron and Michigan. *Houghton. James.* On sand banks.
830. *C. undulatus*, *Nutt.* *r-p.* 1 to 2 f. Near Lake Huron. *Nutt.*
831. *Elephantopus carolinianus*, *Willd.* Elephant's foot. Sept. *p.* 2 f. 4. Dry soils. Near Dayton, O. *Eberle.*
832. *Vernonia noveboracensis*, *Willd.* Iron-weed. Flat-top. Aug.-Sept. *p.* 4 to 6 f. 4. bt. Wet grounds. W. Medicinal?
833. *V. præalta*, *Willd.* Also called iron-weed. Aug.-Oct. *p.* 5 to 7 f. 4. md. bt. O. Dr. Stephens of Monroe, O., says that the root of the iron-weed is reputed to be a very active purgative.
834. *V. corymbosa*, *Schweinitz.* *r.* 1 f. *Eat.* (Aug. *r-p.* 1 to 3 f. 4. wp. Darby Plains, O)?
835. *V. altissima*, *Nutt.* Aug. *p.* 6 to 12 f. 4. bt. Banks of streams. O. Ky. *Nutt.* Ark. *Jas.*
836. *V. baldwinii*, *Torr.* Above St. L. *Bk.*
837. *V. fasciculata*, *Michx.* Aug. 4. Prairies of Illinois. *Michx.*
838. *Liatris spicata*, *Willd.* Ohio devil's bit. Gay feather. Aug.-Sept. *p.* 3 to 6 f. 4. dp. O. Ky. Stimulant, carminative, diaphoretic. Thompsonians and others.
839. *L. squarrosa*, *Willd.* Button snakeroot. Aug.-Oct. *p.* 1 to 2½ f. 4. Sandy woods. *Bk.* dp. O. Ky. W. Medicinal. See 838.
840. *L. scariosa*, *Willd.* Aug.-Oct. *p.* 3 to 4 f. 4. Sandy woods, &c. O.
841. *L. graminifolia*, *Walt.* Sept. *p.* 2 to 4 f. 4. Wet pine barrens. *Ell.* Ky. *St.*
842. *L. gracilis*, *Pursh.* Sept. *p.* 2 to 3 f. 4. Pine barrens. *Ell.* Oak barrens, near Mar. O.
843. *L. cylindracea*, *Michx.* Aug. *p.* 1 to 2 f. 4. Woods and prairies of Ill. *Pursh.* Mich. *Eat.*
844. *L. pycnostachya*, *Michx.* Sept. 2 to 4 f. 4. Ill. &c. *Pursh.*

845. *L. aspera*, Michx. Sept. 4. Ill. &c. Michx.  
 846. *Conyza camphorata*, Pursh. Marsh fleabane. Aug.-Sept. p. 1 to 2 f. 4. Salt marshes. Bk. rb. Ky. St. Cin. O. Medicinal?  
 847. *Inula helenium*, Linn. Elecampane. Jul.-Aug. y. 3 to 4 f. 4. rd. &c. W. Tonic, stimulant, diaphoretic, diuretic, emenagogue. Wood and Bache, 355.  
 848. *Arnica fulgens*, Pursh. Variety of *A. montana*, Nutt. Leopard's bane. Jul. y. 1 f. 4. Margins of marshy springs. Mo. Ter. Nutt. Stimulant, diaphoretic, emenagogue, &c. Wood and Bache, 108.  
 849. *Chrysopsis mariana*, Nutt. Aug.-Oct. y. 1 to 2 f. 4. Sandy woods. Ky. St.  
 850. *C. villosa*, Pursh. y. 4. Mo. Riv. Nutt.  
 851. *Zinnia multiflora*, Linn. Blood marygold. Sept. ☉. Banks of the Miss. Pursh.  
 852. *Gnaphalium polycephalum*, Michx. Sweet balsam. Fragrant life everlasting. Jul.-Sept. Pale r. 1 to 2 f. ☉. Fields. W. Astringent, pectoral, corroborant.  
 853. *G. americanum*, Linn. American cudweed. Jul.-Sept. Pale y. 6 to 10 i. ☉. ow. rs. Mar. O.  
 854. *G. purpureum*, Linn. Jul.-Oct. Pale p. 8 to 12 i. 4. Barren soil. Ky. St.  
 855. *G. uliginosum*, Linn. Marsh cudweed. Aug.-Sept. Yellowish brown flowers. 3 to 6 i. ☉. rd. mh. Wor. O. Ky.  
 856. *G. plantagineum*, Linn. Plantain cudweed. May-June. r-w. 8 to 10 i. 4. Woods, &c. wp. O. Ky.

SUB-ORDER III. ASTERÆ.—Star-flower like.

*Aster*. Star-wort, or star-flower.

§1. *Leaves entire*.

857. *Aster hyssopifolius*, Linn. Aug.-Oct. w-p. 1 to 2 f. 4. Sandy fields. Louisville. *MMurt*.  
 858. *A. solidaginoides*, Michx. Aug.-Oct. w. 2 f. 4. Woods. Louisville. *MMurt*.  
 859. *A. tenuifolius*, Linn. Aug.-Nov. w-p. 2 to 3 f. 4. rd. Fields. O. Louisville.  
 860. *A. linarifolius*, Linn. Sept.-Oct. w-p, & y. 1 to 2 f. 4. dp. rs. Duncan's Plains, O. Ky. St.  
 861. *A. linifolius*, Linn. Sept.-Oct. w, or pale p. 18 i. to 2 f. 4. sw. Louisville. *MMurt*.  
 862. *A. ericoides*, Willd. Aug. Pale p. 2 to 3 f. 4. Barren soils. Ky. St.  
 863. *A. paludosus*, Ait. Aug.-Nov. b. 1 to 2 f. 4. Borders of swamps. Mo. Ter. Jas.

864. *A. multiflorus*, *Ait.* Aug. *w* & *y*. 2 to 3 f. 4. rd. Fields. Ky. *St.*
865. *A. concolor*, *Linn.* Aug.—Nov. *b*. 2 to 3 f. 4. Pine woods. Fox Riv. N. W. Ter. *Houghton.*
866. *A. cornifolius*, *Muhl.* Aug. *w*. 2 to 3 f. 4. ow. &c. O. Ky.
867. *A. humilis*, *Willd.* Aug. *w*. 1 f. 4. Ky. *St.*
868. *A. amygdalinus*, *Lam.* Aug.—Sept. *w*. 2 f. 4. Low grounds. O. Ky.
869. *A. novæ-angliæ*, *Linn.* Sept.—Nov. *p* or *b*. 3 to 6 f. 4. md. wp. dp. O. Ky.
870. *A. cyaneus*, *Pursh.* Sept.—Nov. *p* & *b*. 3 to 4 f. 4. md. dp. Duncan's Plains, O.
871. *A. phlogifolius*, *Willd.* Aug.—Nov. *p*. 1 to 2 f. 4. Moist grounds. *Bk.* ow. Ky. *St.* Near Dayton, O.
872. *A. carolinianus*, *Walt.* Oct. *p*. 10 to 12 f. 4. Swamps. Ky. *St.*
873. *A. canescens*, *Pursh.* Aug.—Oct. *b*. 1 f. ♂. Mo. Ter. *Nutt.*
874. *A. pauciflorus*, *Nutt.* Aug. *w*. 10 i. 4. Margins of salt springs. Mo. Ter. *Nutt.*
875. *A. sericeus*, *Nutt.* ii. 155 *Vent?* Spreng. iii. 525. *p*. 12 to 18 i. 4. Ill. *Nutt.* Mo. Ter. *Houghion.*
876. *A. flexuosus*, *Nutt.* Sept.—Oct. Pale *p*. 6 to 18 i. 4. Salt marshes usually. Ky. *St.*
877. *A. montanus*, *Nutt.* *p*. 1 to 2 f. Mts. Tenn. *Nutt.*
878. *A. oblongifolius*, *Nutt.* *p*. 1 f. 4. Banks of the Missouri. *Nutt.*
879. *A. albus*, *Nutt.* Aug. *w*. 1 f. 4. Mo. Ter. *Nutt.*
- §2. *Leaves lanceolate and ovate, the lower ones serrate.*
880. *A. puniceus*, *Linn.* Sept.—Nov. *p*. 6 to 8 f. 4. (Salt swamps, *Bk.*) dp. wp. md. bt. O.
881. *A. novi-belgii*, *Linn.* Aug.—Oct. Pale *p*. 3 f. 4. Fields. Ky. *St.*
882. *A. gracilis*, *Nutt.* Pale *b*. 1 f. 4. Savannahs of Ky. and Tenn. *Nutt.*
883. *A. prenanthoides*, *Willd.* Aug.—Oct. *b*. 3 to 4 f. 4. cr. bt. O. Ky.
884. *A. lævis*, *Linn.* Sept.—Nov. *p*. 2 f. 4. Woods and sides of ponds. Ky. *St.* N. W. Ter. *Houghton.*
885. *A. conyzoides*, *Willd.* Jul.—Aug. *w*. 1 to 2 f. 4. Copses, &c. O. Ky.
886. *A. miser*, *Linn.* Aug.—Nov. *w*. 1 to 3 f. 4. dp. O. Ky.
887. *A. divergens*, *Ait.* Var. of *miser*, *Torr.* Sept. *w-r*. 3 to 5 f. 4. Ky. *St.*
888. *A. diffusus*, *Ait.* Var. of *miser*, *Torr.* Sept.—Nov. *w*. 4. Ky. *St.*



§ 3. *Leaves cordate and ovate, serrate.*

889. *A. cordifolius*, Linn. Sept.—Nov. *w.* or pale *p.* 2 to 3 f. 4. Woods, in hilly districts. O. Ky.
890. *A. macrophyllus*, Linn. Sept.—Oct. *w* or pale *b.* 1 to 2 f. 4. rs. sr. sw. Wor. O. Louisville. M'Murt.
891. *A. undulatus*, Linn. *divesifolius*, Michx. Sept. Pale *b.* 2 to 3 f. 4. Old fields, &c. O. Ky.
892. *A. Shortii*. *Flowers* in a spreading panicle: *leaves* nearly glabrous above, scabrous and sparingly pilose beneath: *radical leaves* heart-oblong, pubescent when young, remotely and deeply crenate, almost obtuse: *cauline leaves* mostly on long ciliate petioles, entire, cordate-lanceolate, acute: *floral leaves* (bracts) ovate and lanceolate, sessile, minute, entire: *stem* branching above. Oct. *b.* 2 f. 4. On hill-sides and in ravines. Wor. Ciu. O. Ky. The specific name was proposed by Dr. Boot, of London, in honour of one of our most distinguished botanists, Dr. C. W. Short, of Lexington, Ky. Whether the species has been published or not by Dr. Boot, I do not know. The above brief description was taken from dried specimens.
893. *A. oolentangiensis, mihi*. *Panicle* terminal, elongated, few flowered: *leaves* acuminate, scabrous above, rough and pubescent beneath: *radical leaves* long petioled, ovate, obliquely cordate, remotely serrate: *lower cauline leaves* lanceolate, (2 to 4 inches in length,) remotely serrate, on long winged petioles: *upper leaves* lanceolate, half clasping, entire: *stem* simple, strigose. Sept.—Oct. Pale *b.* 2 f. 4. sw. Wor. O. Forests on the Oolentangy River. I first discovered this plant in 1832, on the large, forest clad mound, near Worthington, O.
894. *Erigeron purpureum*, Linn. Purple erigeron. Jul.—Aug. *p.* 12 to 18 i. 4. ow. &c. O. Ky.
895. *E. philadelphicum*, Linn. Aug.—Sept. Pale *p.* 2 to 3 f. 4. ow. &c. W. Diuretic, antilithic. Bart. Med. Bot. 227. Wood and Bache, 284.
896. *E. heterophyllum*, Linn. Scabius. Flea-bane. June.—Aug. *w.* 2 to 3 f. ♂. Waste grounds, O. Diuretic, antilithic. Wood and Bache. 284. Bart. i. 231.
897. *E. strigosum*, Linn. Jul.—Aug. *w.* 2 to 3 f. ♂. md. ow. O. Ky.
898. *E. bellidifolium*, Linn. Robin's plantain. June—Aug. Pale *p.* 12 to 18 i. 4. sw. Ky. St. O.
899. *E. pumilum*, Nutt. Low erigeron. May. *w.* 4 i. 4. Plains of the Missouri. Nutt.

900. *E. asperum*, Nutt. Rough erigeron. Aug. w. 12 i. Plains of the Missouri. Nutt.  
 901. *E. glabellum*, Nutt. Aug. Pale b. 12 to 18 i. 4. Plains of the Missouri. Nutt.  
 902. *E. divaricatum*, Michx. Aug. 6 i. Spreading. 1 to 2 f. O. Ky. St. L. Nutt.  
 903. *E. canadense*, Linn. Flea-bane. Jul.-Sept. 2 to 6 f. O. Dry fields. ow. W. Diuretic, tonic, astringent. Wood and Bache, 283.

*Solidago*.—Golden rod. Flowers yellow.

§ 1. *Racemes secund; leaves with three combined nerves.*

904. *Solidago canadensis*, Linn. Aug.-Sept. 2 to 5 f. 4. Fields. Ky. St.  
 905. *S. procera*, Ait. Jul.-Sept. 4 to 7 f. 4. Swamps and low grounds. Louisville. MMurt.  
 906. *S. serotina*, Ait. Sept.-Oct. 4 f. 4. Woods. Ky. St.

§ 2. *Racemes secund; leaves veined.*

907. *S. nemoralis*, Ait. Aug.-Oct. 1 to 2 f. 4. Sandy fields. Louisville. MMurt.  
 908. *S. ulmifolia*, Willd. Aug.-Oct. 3 to 4 f. 4. sw. Louisville. MMurt.  
 909. *S. recurvata*, Willd. Sept.-Nov. 3 to 4 f. 4. sw. O.  
 910. *S. odora*, Ait. Golden rod tea plant. Aug.-Oct. 3 f. 4. ow. &c. O. Ky. Aromatic, stimulant, carminative. Big. Med. Bot. i. 187. Wood and Bache, 610.

§ 3. *Racemes erect.*

911. *S. bicolor*, Linn. Aug.-Oct. 1 to 2 f. 4. Dry hills. Ky. St.  
 912. *S. stricta*, Ait. Aug.-Oct. 2 f. 4. Sandy woods, Bk. Prairies, O.  
 913. *S. cæsia*, Ait. Aug.-Oct. 2 f. 4. Sandy woods. Ky. St.  
 914. *S. latifolia*, Muhl. Aug. 2 f. 4. rs. sw. O. Ky.  
 915. *S. flexicaulis*, Pursh. Aug. 2 to 3 f. 4. Woods. Ky. St.  
 916. *S. axillaris*, Pursh. Aug.-Oct. 2 to 3 f. 4. Woods. O. Ky.  
 917. *S. cordata*, Short and Peter. Aug.-Oct. 2 to 4 f. 4. Steep, wooded hill-sides, on the banks of the Kentucky river. St. Described in Transyl. Med. Jour. for 1834, page 599.  
 918. *S. tenuifolia*, Pursh. Sept.-Oct. 12 to 28 i. 4. Pine barrens, Bk. dp. O.  
 919. *S. rigida*, Linn. Bone's styptic. Aug.-Oct. 3 to 4 f. 4.

Mts. Bk. dp. Duncan's plains, O. Said to be a valuable styptic, for suppressing hæmorrhage from recent wounds. The leaves are used.

920. *S. ohioensis, mihi.* Root perennial, creeping?: stem simple: radical leaves (when they precede the stem) on long equitant petioles, oblong, retuse, acute and entire at the base, serrate towards the summit, margin scabrous, (near 2 inches wide, by 4 to 6 in length): cauline leaves entire, half clasping, lanceolate, acute: corymb fastigate. Whole plant glabrous, the margin of the leaves excepted. Seeds 16 to 20, scales of the involucre 8 to 13, oblong, obtuse. Oct. y. 2 to 3 f. Wet grassy prairies, Ohio. Van Cleve's prairie, Dayton. Two miles S. from Columbus, O. Pretty closely allied to *S. rigida*.

921. *. Riddellii, Frank.\** Root perennial, creeping: stem simple: leaves lance-linear, glabrous, acute, entire, margin scabrous: radical leaves on carinate, equitant petioles, (10 to 12 inches long), often falcate, 5-nerved, with 2 additional nerves towards the summit, (6 to 8 lines in width. 8 to 10 inches long): cauline leaves carinate, sheathing, upper ones lance-oblong: flowers in a corymbose fascicle: involucre imbricate; scales 8 to 12, appressed, oblong-obovate, obtuse: rays 7 to 9, narrow, scarcely exceeding the disk: disk florets 10 to 12. Sept.-Oct. y. 2 f. Grassy prairies, Ohio. Scott's plains, 12 miles E. from Worthington. Hoffman's prairie, 8 miles E. from Dayton. Allied to the last, more closely than to any other species of my acquaintance. The leaves have a grass-like aspect.

922. *Chrysocoma graveolens, Nutt.* Oct. y. 6 to 8 f. ½. Denuded soils, Missouri banks. *Nutt.*

923. *C. nauscosa, Pursh.* Oct. y. 4. Banks of the Missouri. *Nutt.*

924. *Bellis integrifolia, Michx.* Kentucky daisy. (Sept. w-r.)? 8 to 12 i. Ky. St. Kentucky river. *Peter.*

#### SUB-ORDER IV. EUPATORINEÆ.—Boneset like.

925. *Eupatorium sessilifolium, Linn.* Upland boneset. Aug.—

\* *S. radice perenni; foliis integerrimis, glabris, margine scabris: inferioribus radicalibusque longissime petiolatis, subfalcato-lanceolatis, subacutis, distincte 5-nerviis, superioribus vaginantibus, oblongo-lanceolatis, acutiusculis, obsolete nervosis; petiolis carinatis, equitantibus; caule glabro, striato, corymboso-paniculato; racemis vel fasciculis 3-floris; calycis squamis obtuse ovatis ligulis duplo brevioribus; pedicellis bracteatis, villosiusculis.*—*Frank.*

- Sept. *w.* 2 to 4 f. 4. Hills about Marietta, O. Ky. Tonic, &c. Raf. Med. Fl.
926. *E. purpureum*, *Linn.* Purple thoroughwort. Improperly called queen of the meadow. Aug.-Oct. *p.* 5 to 8 f. 4. Wet woods. *bt.* W. Bitter, aromatic, astringent, diuretic. Wood and Bache, 287. Also hydragogue, antilithic. Beach.
927. *E. verticillatum*, *Muhl.* Joe-pye's weed. Aug.-Oct. Pale *p.* 4 to 6 f. 4. Low grounds. *bt.* sw. O. Ky. Mich. Properties doubtless like the plant, very similar to the last.
928. *E. maculatum*, *Linn.* Aug.-Oct. Pale *p.* 4 to 5 f. 4. Low grounds. Mar. O.
929. *E. punctatum*, *Willd.* Aug.-Oct. *p.* 3 to 4 f. 4. Mts. *Pursh.* Mich. *Ent.*
930. *E. perfoliatum*, *Linn.* Boneset. Thoroughwort. Aug.-Sept. *w.* 2 to 4 f. 4. *wp.* *mh.* &c. W. Tonic, diaphoretic, emetic, aperient. Bart. ii. 125. Big. i. 33. Wood and Bache, 286.
931. *E. ageratoides*, *Linn.* White snakeroot. Aug.-Sept. *w.* 2 f. 4. Woods. W. Antispasmodic, diuretic, diaphoretic. Used in nervous diseases. Dose ʒi, in infusion. See Howard's works, wherein this plant is figured.
932. *E. ovatum*, *Big.* Jul.-Aug. *w.* 3 to 4 f. 4. Low grounds. Ky. *St.*
933. *E. rupestre*, *Rafinisque.* Ky. *St.*
934. *E. falcatum*, *Michx.* Banks of the Ohio and Scioto rivers. *Michx.* Probably identical with 927.
935. *E. altissimum*, *Willd.* Aug. *w.* 3 to 7 f. 4. Banks of the Mississippi and Missouri. *Pursh.*
936. *Cælestina cærulea*, *Cassin.* Mist flower. Aug.-Oct. *b.* 1 to 2 f. (2 to 3 f. *Bk.*) 4. Woods. *bt.* Near Mar. O. Ky. W.
937. *Kuhnia critonia*, *Linn.* (Aug.-Sept. Pale *y.* Mts. *Bk.*) Sept. Pale *y.* 2 to 3 f. 4. *dp.* Miami country.
938. *Mikania scandens*, *Willd.* Climbing thoroughwort. Jul.-Sept. *b-w.* Climbing. 4. Low grounds. Ky. *St.*
939. *Donia squarrosa*, *Pursh.* Aug. *y.* 3 to 4 f. ♂. Calcareous hills, St. L. *Nutt.*

SUB-ORDER V. JACOBÆÆ.—Fire-weed like.

940. *Cacalia suaveolens*, *Linn.* Aug.-Sept. *w.* 3 to 4 f. 4. *wp.* *md.* Banks of streams. O. Ky.
941. *C. atriplicifolia*, *Linn.* Aug.-Sept. *w.* 3 to 6 f. 4. *dp.* O. Ky.

942. *C. reniformis*, Willd. Aug.—Sept. w. 5 to 8 f. Low grounds. ow. Miami country.
943. *C. tuberosa*, Nutt. w. 4 to 6 f. Shady hills, around St. Louis. Nutt.
944. *Tussilago palmata*, Ait. Ap.—May. 4. Islands of Lake Huron. Nutt. Lake Mich. Hought. (Demulcent, expecterant.)?
945. *Senecio vulgaris*, Linn. Groundsel. May—Oct. y. 18 i. 4. cf. Intr. Louisville. M Murt. Refrigerant, antiscorbutic. Hoop. Dic.
946. *S. hieracifolius*, Linn. Fire-weed. Jul.—Aug. w. 2 to 6 f. O. New fields. O.
947. *S. elongatus*, Pursh. Jul.—Aug. 4. rs. Banks of streams. (y. 1 to 2 f. Cin. O.)?
948. *S. obovatus*, Willd. May—June. y. 1 to 2 f. 4. Rocky hills. sr. Sides of clayey hills. O. Ky.
949. *S. balsamitæ*, Willd. June—Jul. y. 1 to 2 f. 4. Damp grounds. O. Ky.
950. *S. gracilis*, Pursh. May—Aug. y. 1 f. 4. Rocky banks, Bk. (wp. Damp grounds. mh. Wor. O. 7 miles N. from Cin.) The Indian name for this and the preceding species, is *nut-quaw*. The root of either, given in infusion two or three times a day, is said to be a most excellent emenagogue.
951. *S. aureus*, Linn. Rag-wort. False valerian. June—Jul. y. 2 f. 4. sw. md. Ky. St. Medicinal?
952. *Cineraria canadensis*, Willd. Canadian ashwort. May. y. 8 i. 4. With 948. Worthington, O. Rare.
953. *C. integrifolia*, Willd. Aug. y. 4. Mo. Ter. Jas.
954. *Boerhaeria glandulosa*, Nutt. ii. 166. Denudated soil, banks of the Miss. and Mo. Nutt.

#### SUB-ORDER VI. HELIANTHÆÆ.—Sunflower like.

*Helianthus*. Sunflower. Flowers yellow. There is much confusion in this genus. The prairies of Ohio produce several species which are as yet unpublished. I have drawn some descriptions from living plants, which I shall be happy to communicate, accompanied with specimens, to any botanist who will attempt a complete monograph. As it is inconsistent with the design of this Synopsis to insert long and minute descriptions, I prefer to omit all but such as have heretofore been determined.



§ 1. *Leaves opposite.*

955. *Helianthus atrorubens*, *Linn.* Aug.-Sept. Disk *p.* 3 to 4 f. 4. Gravelly soil. *W. Bk.*  
 956. *H. frondosus*, *Willd.* Aug.-Sept. 4 f. 4. Woods. *Ky. St.*  
 957. *H. trachelifolius*, *Willd.* Aug.-Oct. 3 to 4 f. 4. Woods. *dp. O. Ky.*  
 958. *H. hispidulus*, *Ell.* Sept. 3 to 4 f. 4. *Mich. Eat. Pine barrens, Ell.*  
 959. *H. truncatus*, *Schw.* Sept. 2 f. 4. *ow. Hills, Mar. O.*  
 960. *H. scaberrimus*, *Ell.* Sept. 4 to 6 f. 4. (*dp. Darby Plains, O.*)?  
 961. *H. tubæformis*, *Willd.* ☉. Banks of the Missouri. *Nutt.* Seed ground into meal by the Indians, for food.  
 962. *H. pubescens*, *Willd.* Aug. 2 to 3 f. 4. *Ky. St.*

§ 2. *Upper leaves alternate.*

963. *H. giganteus*, *Linn.* Aug.-Sept. 5 to 8 f. 4. *dp. &c. O.*  
 964. *H. altissimus*, *Linn.* Jul.-Sept. 5 to 8 f. 4. Mountain meadows, *Bk. Ky. St. Plt. Jas.*  
 965. *H. strumosus*, *Linn.* Aug.-Oct. 3 to 5 f. 4. *ow. dp. O.*  
 966. *H. decapetalus*, *Linn.* Aug.-Oct. 3 to 4 f. 4. Rocky woods, *Bk. O. Ky. N.W. Ter.*  
 967. *Rudbeckia purpurea*, *Willd.* Purple cone-flower. July-Sept. *p.* 3 to 4 f. 4. Barrens. *dp. O. Ky.* Root aromatic, carminative. Figured, *Bart. Fl. N. A. ii. 84.*  
 968. *R. hirta*, *Linn.* Hairy cone-flower. Aug.-Sept. *y.* 2 to 3 f. 4. *dp. &c. O. Ky.*  
 969. *R. triloba*, *Linn.* Aug.-Sept. *y.* 4 to 5 f. 4. *dp. ow. O. Ky.* Figured, *Bart. Fl. i. 88.*  
 970. *R. fulgida*, *Ait.* Jul.-Oct. *y.* 2 to 3 f. 4. *Mts. Bk. dp. O. Mo. Ter. Jas.* Figured, *Bart. Fl. i. 16.*  
 971. *R. laciniata*, *Linn.* Cone-flower. Aug.-Sept. *y.* 4 to 6 f. 4. Borders of swamps. *bt. &c. O. Ky.* Figured, *Bart. Fl. i. 51.*  
 972. *R. pinnata*, *Michx.* Thimble-flower. Jul.-Oct. *y.* 2 to 3 f. 4. *dp. O. Ky.*  
 973. *R. columnaris*, *Pursh.* Jul. *r.* 1 f. 4. On the Missouri. *Pursh.*  
 974. *R. digitata*, *Ait.* Aug.-Oct. *y.* 5 to 6 f. 4. Mountains. *Bk. Mo. Ter. Jas.*  
 975. *R. amplexifolia*, *Willd.* Aug. *y.* ☉. Louisville. Rare. *MMurt.*  
 976. *Actinella acaulis*, *Linn.* June. *y.* 6 i. *Plt. Jas.*

977. *Eclipta procumbens*, *Michx.* June. *w.* Decumbent, 1 to 3 f. ☉? O. Ky. Mo. Ter.
978. *E. brachypoda*, *Michx.* Aug. Prostrate, 1 to 2 f. ☉? Near *Cincinnati*. *Dr. Locke.*
979. *Galardia bicolor*, *Lam.* June. *p.* 2 f. 4. Grassy hills, *Plt. Jas. Ky. St.*
980. *Starkea pinnata*, *Nutt.* Aug. *y.* 1 to 2 f. 4. Plains of the Missouri. Common. *Nutt. Plt. Jas.*
981. *Trichophyllum oppositifolium*, *Nutt.* Jul. 6 to 12 i. 4? *Plt. Nutt. Jas.*
982. *Marshallia angustifolia*, *Michx.* Jul. *p.* 2 f. 4. Tenn. *Michx.*
983. *Hymenopappus tenuifolius*, *Pursh.* *g-w.* ♂. Mo. Ter. *Nutt.*
984. *Actinomeris squarrosa*, *Nutt.* Aug. *y.* 4 to 7 f. 4. Fence corners, &c. O. Ky. (*w & y.* 3 to 4 f. *Bk. Eat. w.* without rays. *Nutt.*) There is misunderstanding here.
985. *A. helianthoides*, *Eat.* Jul. *y.* 2 f. 4? *ow. dp.* Miami Country. *W. Nutt.*
986. *Helenium autumnale*, *Linn.* American sneezewort. Sept.-Oct. *y.* 2 to 3 f. 4. Low grounds. *W. Tonic errhine. Eberle, Mat. Med. ii. 248. Big. Med. Bot.*
987. *Heliopsis lævis*, *Pers.* Ox-eye. Aug.-Sept. *y.* 3 to 5 f. Banks of streams. *bt. W.*
988. *Coreopsis tripteris*, *Willd.* Jul.-Sept. *y.* 3 to 6 f. 4. Borders of prairies. O. Ky.
989. *C. trichosperma*, *Michx.* Tickseed sunflower. Aug.-Sept. *y.* 2 to 4 f. ♂. Swamps. *wp. O. Ky. Mich.*
990. *C. auriculata*, *Willd.* Sept. *y.* 3 to 4 f. 4. Ky. *St.*
991. *C. senifolia*, *Willd.* Aug. *y.* 2 to 3 f. 4. Ky. *St.*
992. *C. crassifolia*, *Ait.* June. *y.* 4. St. L. *Jas.*
993. *C. palmata*, *Nutt.* *y.* 12 i. Ill. Mich. *Nutt.*
994. *C. tinctoria*, *Nutt.* Jul. *y & p.* 1 to 4 f. Mo. Ter. *Nutt.* About gardens. O. Intr.
995. *C. rosea*, *Nutt.* Tickweed. May. *r.* 1 f. Grassy swamps. Louisville. *M'Murt.*
996. *C. aurea*, *Willd.* *y.* 4. Louisville. *M'Murt.*
997. *C. angustifolia*, *Willd.* *y.* Louisville. *M'Murt.*
998. *Bidens frondosa*, *Linn.* Burr marygold. Beggar-ticks. Aug.-Sept. *y.* 3 to 4 f. ☉. Woods and fields. O. Ky. The seeds are said to be alterative.
999. *B. bipinnata*, *Linn.* Spanish needles. Jul.-Sept. *y.* 1 to 2 f. ☉. Near cf. O. Ky.
1000. *B. chrysanthemoides*, *Ell.* Bot. ii. 430. *Michx.* Daisy beggar-ticks. Aug.-Sept. *y.* 1 to 5 f. ☉. mb. pl. *wp. O. Ky.*

1001. *B. cernua*, *Linn.* *connata*, *Willd?* Aug.—Sept. *y.* 1 to 2 f. ☉. Near ponds, &c. With 999. O. Ky.
1002. *B. comasa*, *Hooker.* Ky. *St.*
1003. *Verbesina virginica*, *Linn.* Virginian crownbeard. Jul. *w.* 3 to 6 f. Louisville, *M'Murt.* Mo. Ter. *Jas.*
1004. *Polymnia canadensis*, *Linn.* June—Jul. *y.* 2 to 4 f. 4. sr. sw. &c. O. Ky.
1005. *P. uvedalia*, *Linn.* Jul.—Sept. *y.* 3 to 5 f. 4. Mts. *Bk.* Ky. *St.* West Va. *Paddock.*
1006. *Silphium ternatum*, *Linn.* Jul.—Aug. *y.* 3 to 6 f. 4. Borders of prairies. dp. O.
1007. *S. atropurpureum*, *Retz.* Aug.—Sept. *y.* 4 f. Fields. Mar. O. Central O. Rare.
1008. *S. perfoliatum*, *Linn.* Indian cup-plant. Aug.—Sept. *y.* 4 to 6 f. 4. Fields and prairies. O. Ky. I believe this was one of the Indian remedies. An account of its virtues and the mode and object of its administration, may be found in Howard's work.
1009. *S. terebinthinaceum*, *Linn.* Rosin plant. Jul.—Aug. *y.* 4 to 6 f. 4. dp. O. It is probable that this, and several other species of *Silphium* will hereafter be found to possess valuable medicinal qualities.
1010. *S. gummiferum*, *Ell.* Aug. *y.* 3 to 5 f. 4. Fox Riv. N. W. Ter. *Houghton.* dp. O.
1011. *S. laciniatum*, *Linn.* Giant prairie dock. Aug.—Sept. *y.* 5 to 10 f. 4. dp. Darby Plains, O.
1012. *S. pinnatifidum*, *Ell.* Prairie dock. Aug.—Sept. *y.* 4 to 6 f. 4. dp. Darby Plains, O. The root is large, and fusiform.—The same is true of several other prairie species, and perhaps of all. The last four species are indiscriminately called *prairie dock*, by the inhabitants of Darby Plains.
1013. *Chrysanthemum leucanthemum*, *Linn.* Ox-eye daisy. June—Aug. *w* & *y.* 1 to 2 f. 4. Fields. &c. Intr. O. Asthmatic, &c. Hoop. Dic.

SUB-ORDER VII. AMBROSIACEÆ.—Bitter-weed like.

1014. *Ambrosia trifida*, *Willd.* Bitter-weed. Jul.—Sept. *g* & *y.* 5 to 10 f. ☉. bt. &c. O. Ky. &c. Every where very abundant.
1015. *A. integrifolia*, *Willd.* It seems to be an accidental, rather than a permanent variety of the last. Miami country, &c.
1016. *A. elatior*, *Linn.* Roman wormwood. Ragweed. Hogweed. Aug.—Sept. *g* & *y.* 1 to 5 f. ☉. Fields. W.

1017. *A. artemisifolia*, *Linn.* Aug.—Sept. 4 to 6 f. ☉. Fields. Penn. to Mississippi. *Bk.*
1018. *A. tomentosa*, *Nutt.* 18 i. 4. Mo. Ter. *Nutt.*
1019. *A. bidendata*, *Michx.* Jul.—Sept. ☉. Alleghany Mts. W. to Ill. *Bk.*
1020. *Xanthium strumarium*, *Linn.* Clot-weed. Clot-burr. Aug.—Sept. g. 2 to 6 f. ☉. cf. rd. W.
1021. *Iva xanthifolia*, *Nutt.* Aug. 5 to 6 f. ☉. Arid soils, Fort Mandan, Mo. Ter. *Nutt.*
1022. *I. axillaris*, *Pursh.* Marsh elder. May. y & g. 6 to 8 i. 4. Saline soils, Mo. Riv. *Nutt.*
1023. *I. ciliata*, *Pursh.* Jul. 2 f. ☉. Natural meadows of Kentucky and Illinois. *Pursh.*
1024. *Parthenium integrifolium*, *Linn.* Nephritic plant. Cutting almond. Aug.—Sept. w. 1 to 2 f. 4. Near St. L. *Nutt.* The root is by some regarded as a most valuable diuretic in ischuria. Figured and described in the Eclectic Journal of Science, ii. 279.

SUB-ORDER VIII. ANTHEMIDEÆ.—May-weed like.

1025. *Anthemis arvensis*, *Linn.* Common chamomile. Aug.—Sept. w & g. ☉. Waste grounds. Intr. Ky. *St.*
1026. *A. cotula*, *Linn.* May-weed. Dog fennel. May.—Sept. w & g. 1 f. ☉. rd. &c. Intr. W. Emetic diaphoretic, antispasmodic. Wood and Bache. *Raf. Med. Fl.*
1027. *Achillea millefolium*, *Linn.* Yarrow. Milfoil. Aug.—Sept. w. 1 f. 4. rd. ow. &c. W, Aromatic, bitter, astringent. Hoop. *Dic.*
1028. *Tanacetum huronense*, *Nutt.* Huron tansey. y. 4 f. 4. Sandy shores of Lake Huron.
1029. *T. vulgare*, *Linn.* Tansey. Jul. y. 3 f. rd. Intr. O. Aromatic, bitter, anthelmintic. Wood and Bache.
1030. *Artemisia canadensis*, *Michx.* Wild wormwood. Jul.—Aug. w & y. 3 to 4 f. 4. Sandy shores of Lake Erie. *Plt. Jas.* Many species of *Artemisia* are tonic, anthelmintic, &c. Wood and Bache, 109.
1031. *A. longifolia*, *Nutt.* 4 & 5. rs. Mo. Riv. *Nutt.*
1032. *A. serrata*, *Nutt.* 4. 5 f. Banks of Miss. and Mo. Prairie du Chein. *Nutt.*
1033. *A. columbiensis*, *Nutt.* 6 to 12 f. 5. Arid saline hills, Mo. Ter. *Nutt.*
1034. *A. gnaphalioides*, *Nutt.* Sept. Flowers brown. 1 to 2 f. Dry savannahs about Green Bay. *Nutt.*
1035. *A. ludoviciana*, *Nutt.* 2 f. 4. St. L. *Nutt.*

1036. *A. cernua*, *Nutt.* 5 to 8 f. 4. Shrubby savannahs around St. L. &c. *Nutt.*  
 1037. *A. sericea*, *Willd.* *A. frigida*, *Pursh.* Oct. 4. Gravelly hills of the Missouri. *Nutt.*  
 1038. *A. biennis*, *Willd.* ♂. St. L. Isl. Michill. *Nutt.*  
 1039. *A. cana*, *Willd.* Sept. 4. On the Missouri. *Lewis.*  
 1040. *A. santonica*, *Willd.* Tartarian southernwood. Sept. 4. Plains of the Missouri. *Lewis.* Vermifuge. Wood and Bache, 110.  
 1041. *A. caudata*, *Linn.* Sept. 2f. 4. Gravelly banks of the Missouri. *Michx.* Nuttall doubts the locality.

CLXXXIX. *STELLATÆ*.—THE MADDER TRIBE.

Most of the species seem to possess diuretic qualities.

1042. *Galium trifidum*, *Linn.* Small cleavers. June–Jul. 2. Assurgent. 4. Wet fields, Ky. *St.*  
 1043. *G. tinctorium*, *Linn.* Wild madder. Dyer's cleavers. June–Aug. 2. 1 f. 4. sw. Wet woods, O. Ky. The root contains a red colouring matter; used in dying.  
 1044. *G. obtusum*, *Big.* Jul. 2. 12 to 18 i. 4. mh. wp. Wet woods. O. Ky.  
 1045. *G. asprellum*, *Michx.* Rough bed-straw. June–Sept. 2. 1 to 4 f. 4. O. Ky. Used as a diuretic.  
 1046. *G. triflorum*, *Michx.* Jul–Aug. 2. Procumbent, 3 to 5 f. long. 4. Moist woods. Ky. *St.*  
 1047. *G. aparine*, *Linn.* Goose-grass. Cleaver weed. May–June. 2. 3 to 4 f. O. Woods, &c. W. Diuretic. *Eberle.* West. Med. Gaz. Vol. i. Hoop. Dic.  
 1048. *G. micranthum*, *Pursh.* Jul. 2. 10 i. 4. Mountain swamps. *Pursh.* Woods, O.  
 1049. *G. circæzans*, *Michx.* Wild liquorice. June–Jul. 2. 1 f. 4. rs. sw. O. Ky. Demulcent, expectorant, diuretic. The root tastes like liquorice.  
 1050. *G. lanceolatum*, *Torr.* Jul. 2. 12 to 18 i. 4. rs. sw. West Va. *Paddock.*  
 1051. *G. punctulosum*, *Michx.* *G. bermudianum*, *Pursh.* June. 2. Wet places. St. L. *Bk.*  
 1052. *G. boreale*, *Pursh.* Aug. 2. 12 to 18 i. 4. Sandy woods. Ky. *St.*  
 1053. *G. pilosum*, *Ait.* Jul.–Aug. 2. 1 f. 4. Woods. Mar. O.

CXC. *CINCHONACEÆ*.—THE CINCHONA TRIBE.

Generally possessed of powerfully febrifugal or emetic qualities. *Lind. Nat. Syst.* 202.

1054. *Cephalanthus occidentalis*, *Linn.* Button bush. Jul.–



Aug. *w.* 4 to 10 f.  $\frac{1}{2}$ . *wp.* Borders of ponds. *W.* Medicinal. *Raf. Med. Fl. i.* Tonic, expectorant. *Ellioti* 187.

1055. *Spermacoce glabra*, *Michx.* June. *w.* ☉. *Ky. St.*

1056. *Mitchella repens*, *Linn.* Partridge berry. June–Jul. *w.* Creeping evergreen, 4 to 8 i. long.  $\frac{1}{4}$ . *rs. sw.* *W.* Berries red, edible. By some it is regarded as expectorant and emenagogue. It is said the Indians used it as a preparatory parturient.

CXCI. *CAPRIFOLIACEÆ*.—THE DOG-WOOD TRIBE.

1057. *Lonicera flava*, *Sims.* Yellow honey-suckle. June–Jul. *y.* Twining shrub. *Cattskill Mts. Bk. Darby Plains, O?*

1058. *L. parviflora*, *Lam.* Woodbine. June–Jul. *y.* Twining shrub. *rs. Ky. St. Mo. Tcr. Nutt. Jas.*

1059. *Diervilla canadensis*, *Muhl.* Bush honey-suckle. June. *y.* 2 to 3 f.  $\frac{1}{2}$ . *rs.* Diuretic in gonorrhœa. See *Hoop. Dic. Art. Lonicera diervilla, Linn.,* a synonym.

1060. *Linnæa borealis*, *Gron.* Twin-flower. Jul. *w* or pale *r.* Creeping evergreen. 9 i. high. Woods and hills. Near Lake Huron. *Nutt.*

1061. *Triosteum perfoliatum*, *Linn.* Fever-wort. Horse gentian. June. *p.* 2 to 3 f.  $\frac{1}{4}$ . *rs. dp. &c.* *W.* Cathartic, emetic, diuretic. *Bart. i. 59. Big. i. 90.*

1062. *T. angustifolium*, *Willd.* Jul. *y.* 2 to 3 f.  $\frac{1}{4}$ . *Ky. St.*

1063. *Symphoria racemosa*, *Pursh.* Snow-berry. Jul. *w-r.* 2 to 3 f.  $\frac{1}{2}$ . Rocky hills. *Ky. St. Mo. Nutt.* Near *Cin. O.*

1064. *S. glomerata*, *Pursh.* Jul.–Aug. *r & y.* 3 to 4 f.  $\frac{1}{2}$ . Sandy fields. *Ky. St. Tenn. Nutt. Mo. Jas.*

1065. *Viburnum prunifolium*, *Linn.* Black haw. June. *w.* 8 to 15 f.  $\frac{1}{2}$ . Borders of prairies. Woods. *W.* Fruit in Oct., sweet and pleasant, dark blue. Bark tonic and astringent.

1066. *V. lentago*, *Linn.* Sheep berry. June. *w.* 10 to 15 f.  $\frac{1}{2}$ . Fruit black. *rs.* Banks of streams. *O. Ky.*

1067. *V. dentatum*, *Linn.* Arrow-wood. June. *w.* 8 f.  $\frac{1}{2}$ . Fruit blue. Moist woods. *Ky. St.*

1068. *V. pubescens*, *Pursh.* June. 6 f.  $\frac{1}{2}$ . *dp. &c.* *O. Ky.*

1069. *V. acerifolium*, *Linn.* Dockmackie. May.–June. *w.* 4 to 6 f.  $\frac{1}{2}$ . Fruit black. *sw.* *O. Ky.* The leaves were used by the Indians as an external application to inflammatory tumours. *Eat. Man. Bot.*

1070. *V. oxycoccus*, *Pursh.* High cranberry. May–June. *r-w.* 5 to 8 f.  $\frac{1}{2}$ . Fruit red. Banks of streams, &c. Near Lake Sup. *Houghton.*

1071. *V. molle*, *Michx.* June. 2. Berries red. Hedges near Danville, Ky. *Michx.* Tenn. &c. *Pursh.*
1072. *V. lantanoides*, *Michx.* Hobble bush. May-June. w. 4 to 8 f. 5. Fruit black, edible. Mountain woods. Said to grow on the high lands of West. Penn.
1073. *Sambucus canadensis*, *Linn.* Elder. Sweet elder. June-Jul. 5 to 10 f. 5. Fruit deep purple. bt. &c. W. Flowers sudorific, berries diaphoretic, aperient, alterative; bark cathartic, emetic. Wood & Bache, 560.
1074. *S. pubens*, *Michx.* Red elder. May-June. w. 6 to 8 f. 5. Fruit red. Fields, &c. Miami country.
1075. *Cornus florida*, *Linn.* Dogwood. May-June. w. 15 to 20 f. 5. Fruit scarlet. Woods. W. Excellent tonic. The small twigs make the best of tooth-brushes. The bark of the fibrous roots was used by the Indians in dying scarlet. Bart. Med. Bot. i. 51, 120. Big. ii. 73.
1076. *C. sericea*, *L'Herit.* Red osier. June. w. 5 to 10 f. 5. Fruit blue. Banks of streams. W. Tonic, astringent. Bart. i. 115. Obviates vomiting. Beach, Mat. Med.
1077. *C. circinata*, *L'Herit.* June-Jul. w. 6 to 8 f. 5. Fruit blue. Banks of streams. Wor. O. Tonic, astringent. Wood and Bache, 225.
1078. *C. paniculata*, *L'Herit.* Prairie cornel. Jul. w. 6 to 10 f. 5. Fruit white. wp. Barrens, O.
1079. *C. alba*, *L'Herit.* Green osier. May-Jul. w. 6 to 10 f. 5. Fruit white. Wet woods. O. Ky. An infusion of the bark of the young twigs, will allay vomiting.
1080. *C. alternifolia*, *Linn.* June. w. 15 to 20 f. 5. Fruit purple. sw. Germantown, O. *Frank.*
1081. *C. asperifolia*, *Michx.* Rough-leaved cornel. June. w. 4 to 10 f. 5. Sandy soils. Wheeling, Va.(?)
1082. *C. canadensis*, *Linn.* Low cornel. May-June. r-w. 6 i. 2. Fruit red. Louisville. *M'Murt.*
1083. *Hydrangea vulgaris*, *Pursh.* Hydrangea. Jul.-Aug. w. 5 f. 5. Hill sides. rs. O. Ky.
1084. *H. cordata*, *Pursh.* Heart-leaved hydrangea. June-Jul. w-r. 4 to 6 f. 5. rs. In ravines, &c. O. Ky.
- CXCII. *LORANTHÆÆ*.—THE MISLETOE TRIBE.
1085. *Viscum verticillatum*, *Nutt.* Mistletoe. Ap.-May. (*Ell.*) Nov.? g-w. 1 to 2 f. 5. An evergreen parasite, on the elm, the oak, the honey locust, &c., near large rivers. W. Ohio river as far as Marietta. Bark astringent. Lind. Nat. Syst. 206.

## CXCIV. ASCLEPIADEÆ.—THE MILKWEED TRIBE.

1086. *Asclepias syriaca*, Linn. Silgrass. Milkweed. Jul.—Aug. *w-p*. 2 to 4 f.  $\frac{1}{4}$ . rd. bt. W. Medicinal, like 1094. Wood and Bache, 114.
1087. *A. obtusifolia*, Michx. June. Pale *p*. 2 to 3 f.  $\frac{1}{4}$ . Sandy fields. Plt. *Jas*. Woods near St. L. *Bk*.
1088. *A. phytolaccoides*, Pursh. Pokeweed silgrass. June.—Jul. *g-p*. 3 to 4 f.  $\frac{1}{4}$ . Wet rocky grounds. O. Ky. Medicinal, like 1094.
1089. *A. amœna*, Willd. Jul. 2 to 3 f.  $\frac{1}{4}$ . *wp*, &c. Wor. O. Ky.
1090. *A. incarnata*, Linn. Jul.—Aug. *r-p*. 2 to 4 f.  $\frac{1}{4}$ . *wp*. Banks of streams, O. Ky. Medicinal. See 1094. Wood and Bache, 114.
1091. *A. variegata*, Linn. Jul.—Aug. *w*. 3 to 4 f.  $\frac{1}{4}$ . Woods. Ky. St. Louisville. *M Murt*.
1092. *A. verticillata*, Linn. June—Jul. *y-w*. 2 to 3 f.  $\frac{1}{4}$ . Dry hills. *dp*. O. Ky.
1093. *A. angustifolia*, Ell. May. *g-w*. 8 to 18 i.  $\frac{1}{4}$ . *wp*. Scott's Plains, Franklin Co. O.
1094. *A. tuberosa*, Linn. Pleurisy root. Jul.—Aug. *Orange*. 2 to 3 f.  $\frac{1}{4}$ . Sandy fields. *dp*. W. Diaphoretic, expectorant, mild aperient. Big. Med. Bot. ii. 59. Bart. i. 239. Antidysenteric. Eberle's Practice, i. 216.
1095. *A. quadrifolia*, Jacq. June. *w* and *r-w*. 1 to 2 f.  $\frac{1}{4}$ . *rs*. *sw*. O. Ky. Medicinal, like the last.
1096. *Acerates viridiflora*, Raf. Green milkweed. July. *g*. 2 f.  $\frac{1}{4}$ . Sandy fields. Ky. St. W. *Bk*.
1097. *Podostigma viridis*, Walt. May. *g* and *p*.  $\frac{1}{4}$ . Siliceous hills, Missouri. *Bk*.
1098. *Enslenia albidia*, Nutt. Jul. *y-w*. Twining.  $\frac{1}{4}$ . *rb*. *bt*. &c. O. Ky. The leaves resemble those of a convolvulus.
1099. *Gonolobus hirsutus*, Michx. June—Jul. *p*. Trailing and climbing, 3 to 4 f.  $\frac{1}{4}$ . Hedges near streams. (*Bk*.) Ky. St.
1100. *G. viridiflorus*, Nutt. *g*. Twining. Banks of the Miss. near St. L. *Nutt. Jas*.
1101. *G. macrophyllus*, Michx. June—Aug. *y*. Twining. Light soils. Ky? St. The root acts on the bowels in a manner similar to colocynth. EH. Bot. i. 328.

## CXCIV. APOCYNÆÆ.—THE INDIAN HEMP TRIBE.

1102. *Apocynum cannabinum*, Linn. Indian hemp. June—

- Jul. Greenish *w.* 2 to 3 f.  $\gamma$ . O. Ky. Emetic, cathartic, diuretic, diaphoretic, expectorant. *Knapp*, in *Am. Med. Rev.* 197. *Am. Jour. Med. Sci.* for 1833.
1103. *A. androsæmifolium*, *Linn.* Dog-bane. Wandering milkweed. June-July. Pale *r.* 2 to 4 f.  $\gamma$ . Fields, &c. O. Emetic, &c. *Big. ii.* 148. *Raf. Med. Fl. i.*
1104. *A. hypericifolium*, *Ait.* St. John's dog-bane. Ju-Jul. Greenish *w.* 1 to 2 f.  $\gamma$ . *rb.* Gravelly banks, &c. O. Ky. Medicinal.
1105. *A. pubescens*, *Brown.* June-Jul. Greenish *w.* 2 to 3 f.  $\gamma$ . *dp.* Fields. *Wor.* O. Medicinal, like 1102, to which it is closely allied.
1106. *Amsonia latifolia*, *Pursh.* April-May. *b.* 2 f.  $\gamma$ . Damp soils. Ky. *St.*

## CXC VII. GENTIANEÆ.—THE GENTIAN TRIBE.

A bitter quality resides in the stems and roots of these plants, which renders them tonic, stomachic and febrifugal. *Lind. Nat. Syst.* 214.

1107. *Gentiana saponaria*, *Linn.* Soapwort gentian. Sept.-Oct. *b.* 1 to 2 f.  $\gamma$ . *wp.* O. Ky. *Dr. Beck* says this is identical with the *G. catesbæi* of *Walter*. Tonic. *Big. Med. Bot. ii.* 127. Figured also, *Bart. Fl. N. A. iii.* 23.
1108. *G. ochroleuca*, *Willd.* Aug.-Sept. Yellowish *w.* 1 f.  $\gamma$ . Sandy fields. Ky. *St.* Brushy Prairie, O. *Van Cleve.*
1109. *G. quinqueflora*, *Willd.* Five-flowered gentian. Aug.-Sept. *b.* 1 f.  $\delta$ . Woods. O. Ky. Tonic. See 1107. *Raf. Med. Fl. i.*
1110. *G. crinata*, *Willd.* Fringed gentian. Oct. *b.* 18 i.  $\delta$ . *wp.* O. Tonic. Figured, *Bart. Fl. N. A. iii.* 27.
1111. *G. acuta*, *Michx.* *Nutt. i.* 172. Aug.-Sept. *g-p.* 1 f.  $\odot$ . Plains, Mo. *Ter.* near Fort Mandan. *Nutt.*
1112. *Houstonia cœrulea*, *Linn.* Venus' pride. Ap.-June. *b-w.* 4 to 8 i.  $\gamma$ . *ow.* &c. O. Ky.
1113. *H. longifolia*, *Willd.* June. *p.* 6 to 10 i.  $\gamma$ . *dp.* Near Middletown, O. Ky. Wet prairies near *St. L. Bk.*
1114. *H. purpurea*, *Willd.* June-Aug. *p.* 4 to 8 i.  $\gamma$ . Dry woods. Mar. O. Ky. *St. Ill. Bk.*
1115. *H. ciliolata*, *Torr.* June-Jul. *r-b.* and *w-b.* 2 to 4 i.  $\gamma$ . *rs. sr.* *Wor.* O. *St. L. Bk.* Ky. *St. Mich.*
1116. *H. pubescens*, *Raf.* May-June, Pale *b.* or *w.* 4 to 8 i. seldom 1 f.  $\gamma$ . Argillaceous soils, Miami country. West Va.



1117. *H. tenuifolia*, Nutt. 6 i. Dry gravelly hills, Pidgeon river, Tenn. Nutt.  
 1118. *H. minima*, Bk. March. b. 1 to 2 i. ☉? St. L. Bk.  
 1119. *Menyanthes trifoliata*, Linn. Buck-bean. May. w-r. 8 to 12 i. 4. mh. Louisville. M Murt. Tonic, cathartic. Big. iii. 55. Wood & Bache, 415.  
 1120. *Obolaria virginica*, Linn. Penny-wort. Ap.-May. w, or w-r. 4 to 6 i. 4? Woods. Ky. St. West Va.  
 1121. *Sabbatia angularis*, Pursh. American centaury. Aug. Rose coloured. 1 to 2 f. ☉ & ♂. Wet meadows, Bk. New dry fields. W. Tonic, stomachic. Big. iii. 147.  
 1122. *S. gracilis*, Salis. July. r. ♂. 1 f. Ky. St.  
 1123. *Frasera walteri*, Michx. American columbo. July. g-y. 3 to 6 f. ♂. dp. Barrens. W. Excellent bitter, emetic and cathartic if recent. Bart. ii. 103. If I mistake not, it was first introduced to the notice of the medical profession by Dr. Samuel P. Hildreth, of Marietta, O.

## CXCVIII. SPIGELIACEÆ.—THE PINK-ROOT TRIBE.

1124. *Spigelia marilandica*, Linn. Pink-root. June. Crimson. 9 to 18 i. 4. Woods. Vermifuge, cathartic, narcotic. Bart. ii. 80. Big. i. 143.

## CXCIX. CONVULVULACEÆ.—THE SCAMMONY TRIBE.

The roots of these plants abound in an acrid milky juice, which is strongly purgative. Lind. Nat. Syst. 216.

1125. *Convolvulus arvensis*, Linn. Bind-weed. June-July. w. Prostrate and climbing. 4. Fields. Ky. St.  
 1126. *C. nil*, Linn. Aug. w & b. Twining. ☉. Intr. O.  
 1127. *C. repens*, Linn. June. w, tinged with r. Twining, 4. bt. mh. Swamps, &c. O. Ky.  
 1128. *C. sepium*, Linn. (June-July. w. Twining, climbing. 4. Hedges and woods.) Bk. Aug. dp. cf. Near Middletown, O.  
 1129. *C. panduratus*, Linn. Man of the earth. Jul. w & r. (p. Beck.) Climbing, &c. 4. Sandy fields. Ky. St. Root purgative, diuretic. Bart. i. 252.  
 1130. *C. macrorrhizus*, Michx. Jul.-Aug. (w, tinged with p. Ell.) w, centre p. Twining. 4. Sandy soils. dp. cf. &c. O. Ky. Root large, mildly aperient.  
 1131. *C. spithameus*, Linn. June. w. Generally erect, 1 f. 4. Sandy woods. Ky. St. Near Cin. O. N. Longworth Esq.  
 1132. *C. purpureus*, Linn. Morning glory. Jul.-Aug. b or p.



- Climbing. ☉. Grows west of the Mississippi. *Eat. Intr. Bk. Ell.*
1133. *C. tenellus*, *Linn.* June–Sept. *w.* Prostrate. 4. Dry sandy soils, *Ell. rs.* On argillaceous cliffs, two miles north of Worthington, O.
1134. *C. micranthus*, *mihi.* Small-flowered morning glory. *Root* fusiform and branching, 2 to 4 lines in thickness, flavoured like 1130: *stem* prostrate and twining, 3 to 8 feet long, glabrous: *leaves* broad cordate acuminate, either entire or with one or two lateral teeth or projecting lobes; mealy and subpubescent on both sides, commonly less than 2½ inches long by 2 in width: *petioles* glabrous, 2 to 3 inches long: *peduncles* half as long as the petiole, smooth, with 2 minute subulate bracts near the middle: *flowers* axillary solitary or in pairs: *calyx* 5-leaved or 5-parted, divisions lance-ovate membranaceous slightly awned; two outer sepals ciliate: *corolla* funnel-form, white, near half an inch in length and breadth, twice as long as the sepals. Juice milky. Flowers, Aug.–Sept. ☉. Fertile woods and prairies, cultivated fields, *bt. &c.* Miami country. (Closely allied to *C. lacunosus*, *Spreng.*? perhaps identical with it.)
1135. *Evolvulus argenteus*, *Pursh.* May. *p.* Erect. 4 to 6 i. 4. Arid gravelly hills, Mo. *Ter. Nutt.*
1136. *Cuscuta americana*, *Linn.* American dodder. June–Jul. *w.* Twining parasite, 2 to 3 f. ☉. Low grounds. W. Yellow and leafless.

CC. POLEMONIACEÆ.—THE GREEK VALERIAN TRIBE.

1137. *Polemonium reptans*, *Linn.* Greek valerian. Sweat-root, of Howard. May. *b.* 1 f. 4. sw. W. The root is said to be an excellent sudorific. See Howard's works.
1138. *Phlox paniculata*, *Linn.* Lichnidia. June–Jul. *p.* 2 to 3 f. 4. md. *bt.* W.
1139. *P. pyramidalis*, *Smith.* Aug. *p.* 2 to 3 f. 4. Mountain meadows, *Bk. Ky. St.*
1140. *P. maculata*, *Linn.* June–Nov. *w-p.* 2 to 3 f. 4. wp. mh. O. *Ky. St.*
1141. *P. aristata*, *Michx.* June. *w-p.* or *w.* 18 i. 4. Wet woods. *Ky. St.* Banks of the Ill. *Bk. O.* Dr. Beck says the *P. pilosa* is not distinct from this.
1142. *P. divaricata*, *Linn.* Called *Sweet-William* in Ohio. Ju. *b.* 9 to 12 i. 4. (*p.* Woods. W.)

1143. *P. reptans*, Michx. June. *b & p.* 6 to 8 i. 4. Argillaceous hill sides. O. Ky.  
 1144. *P. subulata*, Linn. Mountain pink. Ap.-May. *r & p.* Procumbent, 3 to 4 i. high. 4. Rocky hills, Ky. St.  
 1145. *P. setacea*, Linn. May. *r & p.* Procumbent, 4. O. Ky.  
 1146. *P. nitida*, Pursh. June-Aug. *p.* 18 to 24 i. 4. ow. Near Duncan's Plains, O.  
 1147. *P. cordata*, Ell. Aug. 1 to 2 f. Ky. St.  
 1148. *P. glaberrima*, Linn. June-Jul. *p.* 1 to 2 f. 4. Pine barrens, Ell. Ky. St.  
 1149. *P. bifida*, Bk. Ap. *p.* 4 to 6 i. Near Fort Clark, Mo. Bk.  
 1150. *Collomia linearis*, Nutt. June. *w-p.* 4 to 12 i. ☉. Banks of the Missouri, near Shian river. Nutt.

## CCI. HYDROLEACEÆ.

1151. *Diapensia cuneifolia*, Salis. June. *w.* ½. Near the Platte river. Jas.

## CCII. EBENACEÆ.—THE EBONY TRIBE.

1152. *Diospyros virginiana*, Linn. Persimmon. May. *g-y.* 20 to 40 f. ½. Woods. W. Bark bitter, astringent, febrifugal. Wood & Bache, 274. Michx. Sylv. Am. ii. 219. Fruit styptic until matured by frost. It is then rather pleasant.

## CCV. OLEACEÆ.—THE OLIVE TRIBE.

1153. *Ligustrum vulgare*, Linn. Prim. Privet. May-June. *w.* 4 to 6 f. ½. Woods, W. Bk.  
 1154. *Chianothus virginica*, Linn. Fringe tree. May-June. *w.* 6 to 10 f. ½. Mts. &c. Ky. St. O. Frank.  
 1155. *Fraxinus acuminata*, Lam. White ash. May. 50 to 60 f. ½. Woods. W. Timber light and valuable for many purposes. The bark has much vague celebrity for its reputed medicinal virtues. It is said to be an antidote for snake bites, to remove splenic enlargements, &c.  
 1156. *F. sambucifolia*, Willd. Black ash. Ap. Large tree. Swamps. O. Ky. It makes most durable rails. The Indians used to make brooms from the saplings.  
 1157. *F. quadrangulata*, Willd. Blue ash. May. Very large tree. W. Timber valuable; used much in making floors. Bark medicinal?  
 1158. *F. juglandifolia*, Lam. Swamp ash. May. A small tree. Central Ohio.

## CCVII. PRIMULACEÆ.—THE PRIMROSE TRIBE.

1159. *Primula farinosa* var. *americana*, Torr. Bird's-eye primrose. Pale *p.* 6 to 12 i.  $\mathcal{U}$ . Shores of Lake Huron and Sup. Nutt. Houghton.
1160. *Androsace occidentalis*, Pursh. Ap. *w.* 1 to 3 i.  $\odot$ . Dry elevated plains, Mo. Ter. Nutt. Plt. Jas.
1161. *Dodecatheon integrifolium*, Michx. Pride of Ohio. May–June. Pale *b.* 18 i.  $\mathcal{U}$ . Borders of a marsh, 7 miles north of Cincinnati. Yellow Springs, O. Mo. Ter. Lewis.
1162. *D. meadia*, Linn. False cowslip. May–June. *p.* 8 to 12 i.  $\mathcal{U}$ . rs. Ky. St. Ill. Prairies of St. L. Bk.
1163. *Hottonia inflata*, Linn. Water feather. Jul. *w.* (6 to 10 i)?  $\mathcal{U}$ . Stagnant waters. Lagoons of the Licking, Ky. St.
1164. *Lysimachia ciliata*, Linn. Money-wort. Jul. *y.* 2 to 3 f.  $\mathcal{U}$ . bt. &c. W. Plants of this genus were formerly reputed to be vulnerary, antiscorbutic, &c. See Boerhaave.
1165. *L. stricta*, Ait. *L. racemosa*, Michx. Upright loose-strife. Jul.–Aug. *y.* 12 to 18 i.  $\mathcal{U}$ . Low grounds. Dayton. O. Eberle.
1166. *L. quadrifolia*, Linn. June–Jul. *y.* 12 to 18 i.  $\mathcal{U}$ . Low grounds. O. Ky.
1167. *L. revoluta*, Nutt. Prairie money-wort. July–Aug. Golden *y.* 12 to 18 i.  $\mathcal{U}$ . wp. (rs. Bk.) Shores of the great lakes. N. W. Ter. Hough. Central Ohio.
1168. *L. quadriflora*, Sims. *L. longifolia*, Pursh. June–Jul. *y.* 18 i.  $\mathcal{U}$ . wp. Ky. St. Hoffman's wet grassy prairie, near Dayton, O. (2 to 3 f. Wet woods, Pursh.)
1169. *L. hybrida*, Michx. July. *y.* Simple, 2 f.  $\mathcal{U}$ . Grassy prairies, Central Ohio. Ky.
1170. *L. heterophylla*, Michx. June–July. *y.* Branching near the bottom. 12 to 18 i.  $\mathcal{U}$ . Hills, ow. near Cincinnati. Hardly distinct from the preceding, except in habit.
1171. *L. capitata*, Pursh. June. *y.* 1 f.  $\mathcal{U}$ . Swamps, &c. Ohio, shores of Lake Erie. Nutt.
1172. *L. nummularia*, Linn. Creeping loose-strife. June–July.  $\mathcal{U}$ . Shady places. (Hooker.) Calcareous banks of Lake Michigan. (?) Nutt.
1173. *Anagallis arvensis*, Linn. Scarlet pimpernel. Jul. *r.* Procumbent, 4 to 6 i.  $\odot$ . Fields. Intr? Ohio. Louisville. M'Murt. One of the reputed specifics for hydrophobia. Eberle's Pract. Med. 2d ed. ii. 143.

1174. *Centunculus minimus*, *Nutt.* Bastard pimpernel. Jul. 4 to 6 i. Margins of ponds, Mo. Ter. *Nutt.*  
 1175. *Samolus valerandi*, *Linn.* Water pimpernel. July–Sept. w. 6 to 12 i. 4. Wet grounds. rb. W.

CCVIII. *LENTIBULARIÆ*.—THE BLADDER WORT TRIBE.

1176. *Utricularia macrorhiza*, *Le Conte.* *U. vulgaris*, *Pursh.* Bladder wort. Aug.–Oct. y. Scape 4 to 8 i. Shoots or roots long, floating in stagnant pools. Lockbourne, Dayton, O. Ky.  
 1177. *U. ceratophylla*, *Michx.* Jul.–Aug. Scape 8 i. Root long, floating. 4. pl. O.?  
 1178. *U. cornuta*, *Michx.* Aug. y. Scape 10 i. 4. Wet rocks. Lake Sup. *Hough.*  
 1179. *U. purpurea*, *Walt.* Aug. p. Scape 2 to 3 i. 4. Ponds on mountains, Bk. N. W. Ter. *Hough.*

CCX. *OROBANCHEÆ*.—THE BROOM-RAPE TRIBE.

1180. *Orobanche americana*, *Linn.* Cancer-root. Jul. Whole plant brownish yellow. 6 to 8 i. 4. Parasitic. In patches, on the roots of trees, in sw. W. Antiscirrhou?, astringent.  
 1181. *O. uniflora*, *Linn.* Squaw-root. May–Jul. b–w. 4 to 6 i. 4. Parasitic, yellowish white. sw. W. Figured in Bart. Fl. N. A.  
 1182. *Epiphegus virginianus*, *Eat.* Beech-drops. Jul.–Sept. w & p. 8 to 12 i. 4. A leafless, brownish yellow parasite, on the roots of the beech tree. W. Astringent, &c. Eber. Mat. Med. i. 355. Antiscirrhou?. Bart. ii. 38.

CCXI. *SCROPHULARINEÆ*.—THE FIGWORT TRIBE.

§ I. *Veronireæ*. Speedwell like.

1183. *Veronica officinalis*, *Linn.* Speedwell. June. Pale b. 6 to 12 i. 4. Dry woods, &c. Central Ohio. Alterative, antiscorbutic. Wood & Bache, 661.  
 1184. *V. serpyllifolia*, *Linn.* Thyme-leaved speedwell. May–Aug. Pale b. Procumbent, 3 to 5 i. br. Wet argillaceous soil. Intr. Bk. O. Ky.  
 1185. *V. anagallis*, *Linn.* Water speedwell. June–Aug. b. 1 to 2 f. 4. mh. Ditches, &c. O. Ky.  
 1186. *V. scutellata*, *Linn.* Scull-cap speedwell. May. Pale r. 1 to 2 f. (6 to 12 i. Intr. Bk.) 4. wp. Seemingly indigenous, in the wildest marshes and prairies, O.



1187. *V. arvensis*, *Linn.* Small speedwell. May. Pale *b.* ☉. Fields. Intr. O. Ky.  
 1188. *V. agrestis*, *Linn.* May. Pale *b.* 3 to 9 i. ☉. Intr. Sandy fields. O. Ky.  
 1189. *V. peregrina*, *Linn.* Wandering speedwell. May-Jul. *w.*, or *w-b.* ☉. Argillaceous soil. O. Ky.  
 1190. *V. reniformis*, *Pursh.* June. *b.* Creeping. 4. Banks of the Missouri, *Pursh.*  
 1191. *Leptandra virginica*, *Nutt.* Black-root. Culver's physic. Jul.-Aug. *w.*, or pale *r.* 2 to 4 f. 4. Woods, &c. Cathartic, sudorific, alterative. Wood & Bache, 661. Beach's Mat. Med.

§ 2. *Erinaceæ.*

1192. *Buchnera americana*, *Linn.* Blue hearts. Jul. *b.* 12 to 18 i. 4. Sandy places. Prairies near St. L. *Bk.*

§ 3. *Scrophulariææ.*—Figwort like.

1193. *Scrophularia marilandica*, *Linn.* Figwort. June-July. Greenish brown. 3 to 6 f. 4. bt. &c. W. Like the foreign *S. nodosa* to which it is closely allied, it would doubtless prove a useful application to scrofulous tumours, hæmorrhoids, &c.  
 1194. *Antirrhinum linaria*, *Linn.* Toad-flax. June-Oct. *y* and orange. 1 to 2 f. 4. rd. Intr. O. Ky. Diuretic. cathartic, resolvent. Hoop. Die.  
 1195. *A. canadense*, *Linn.* Flax snap-dragon. June-Aug. *b.* 6 to 12 i. ☉. Low grounds, Louisville. *MMurt.*  
 1196. *Mimulus ringens*, *Linn.* Monkey flower. Aug. Pale *p.* 2 f. 4. Wet grounds. W.  
 1197. *M. alatus*, *Linn.* Aug. Pale *b.* 2 f. 4. Wet meadows. bt. br. W.  
 1198. *Gratiola aurea*, *Muhl.* Hedge hyssop. Jul.-Aug. *y.* 4 to 8 i. *Eat.* 1 to 2 f. *Bk.* 4. Sandy swamps, &c. Ohio. *Eberle.* Allied to the foreign *G. officinalis*, and like it, doubtless, possesses cathartic, emetic and diuretic properties. See Wood & Bache, 326.  
 1199. *G. virginica*, *Linn.* Jul.-Aug. *y-w.* 6 i. 4. Inundated meadows. O. Ky.  
 1200. *G. missouriana*, *Bk.* June. *y.* 4 to 6 i. 4. Near St. L. *Bk.*  
 1201. *Lindernia attenuata*, *Muhl.* Aug. *b.* 6 to 8 i. ☉. rb. &c. Ky. Central Ohio.  
 1202. *L. dilatata*, *Muhl.* Jul.-Aug. Pale *p.* 6 i. ☉. Inundated banks. W. Fig. Bart. Fl. N. A.  
 1203. *Chelone glabra*, *Linn.* Snake-head. Balmony. Aug.-



- Oct. *w*, or *r-w*. 2 f. 4. *wp*. *W*. The leaves and flowers are used by the Thompsonians as a tonic. I believe they attribute other properties also to this plant.
1204. *Pentstemon pubescens*, *Linn*. Beard-tongue. June. Pale *p*. 1 to 2 f. 4. Hill-sides. *W*.
1205. *P. lævigatum*, *Linn*. June. Pale *p*. 1 to 2 f. 4. *bt. ow*. *Ky*. Miami country.
1206. *P. gracile*, *Nutt*. Slender beard-tongue. June. Pale *p*. Depressed soils. *Mo. Ter. Nutt. Plt. Jas*.
1207. *P. cristatum*, *Nutt*. *p*. 6 to 8 i. 4. Argillaceous hills. *Plt. Jas*.
1208. *P. nuttallii*, *Bk*. 2 to 3 f. Near St. L. *Bk*.
1209. *P. albidum*, *Nutt*. *w*. 6 to 8 i. *Plt. Nutt*.
1210. *P. grandiflorum*, *Nutt*. 3 f. Prairie du Chien. *Plt. Jas*.
1211. *Collinsia verna*, *Nutt*. *Collinsia*. June. *b & w*. 8 to 15 i. ☉. *bt. &c. O. Ky*. Figured, *Jour. Acad. Nat. Sci. Philad. i. plate 9*. Specimens of this beautiful plant were first communicated to Mr. Nuttall, by Dr. Drake of this city.
1212. *Capraria multifida*, *Michx*. Jul. *g-w*. 2 to 4 i. ☉. Sandy banks of rivers. *W*.
1213. *Herpestris rotundifolia*, *Michx*. Aug. *b*. Procumbent. Margins of ponds. *Ell*. Inundated banks of the Illinois river. *Pursh*.
1214. *Gerardia flava*, *Linn*. False foxglove. Aug.-Sept. *y*. 2 to 3 f. 4. Woods. *O. Ky. W*.
1215. *G. glauca*, *Eddy*. Aug.-Sept. *y*. 3 to 5 f. 4. Barrens. *dp. W*.
1216. *G. pedicularia*, *Linn*. Louse-wort foxglove. Jul.-Aug. *y*. 2 to 3 f. 4. Sandy woods or barrens, Mar. *O. Ky. N. W. Ter*.
1217. *G. purpurea*, *Linn*. Aug.-Oct. *p*. 1 to 2 f. ☉. (Fields and woods, *Bk*.) Wet prairies. *O. Ky*. Abundant 8 miles E. of Dayton.
1218. *G. tenuifolia*, *Linn*. Jul.-Sept. *p*. 6 to 18 i. ☉. *cf. dp*. Woods, &c. *O. Ky*.
1219. *G. maritima*, *Raf*. Jul.-Sept. *p*. 6 to 12 i. ☉. Salt marshes usually. Near Lake Mich. *Hough*.
1220. *G. auriculata*, *Michx*. Ear-leaf gerardia. Aug.-Sept. *p*, with dark red spots. 2 to 4 f. ☉. Prairie half a mile south of Middletown, *O*. (8 to 12 i. Rocky fields, *Beck* and others.) Illinois, *Pursh*. Louisville, *M'Murt*.
1221. *Seymeria macrophylla*, *Nutt*. Mullein foxglove. Jul. *y*. 4 to 5 f. 4. Shady alluvial soils, *O*.

## CCXII. RHINANTHACEÆ.—THE RATTLE TRIBE.

1222. *Pedicularis canadensis*, *Linn.* Louse-wort. May–July. *y* & *p.* 8 to 10 i.  $\mathcal{U}$ . Woods, &c. W.
1223. *P. pallida*, *Pursh.* Pale-flowered louse-wort. Sept. Pale *y.* 1 to 2 f.  $\mathcal{U}$ . wp. mh. W.
1224. *P. gladiata*, *Michx.* May–June. *y* & *p.* 1 f.  $\mathcal{U}$ . Wet meadows. Barrens near St. L. *Bk.*
1225. *Melampyrum americanum*, *Michx.* Cow wheat. June–July. *y.* 8 to 12 i.  $\odot$ . Woods. Louisville. *M. Murt.*
1226. *Orthocarpus luteus*, *Nutt.* July–Aug. *y.* 12 to 14 i. Humid situations. Mo. Ter. *Nutt.*
1227. *Euchroma coccinea*, *Nutt.* Painted-cup. May–June. Corol *y.* Bracts *r.* 8 to 12 i.  $\mathcal{U}$ . Wet grounds. W.
1228. *E. grandiflora*, *Nutt.* Ap.–May. Corol *g-w.* Bracts *g.*  $\mathcal{U}$ . Prairie du Chien. *Nutt.* Mo. Ter. *Jas.*

## CCXIII. SOLANEÆ.—THE NIGHT-SHADE TRIBE.

1229. *Solanum nigrum*, *Linn.* Common night-shade. July–Aug. *w.* 1 to 3 f.  $\odot$ . Old fields. W. Narcotic, emetic, diaphoretic, &c. Eberle's Mat. Med. ii. 75.
1230. *S. carolinense*, *Linn.* Horse nettle. June. *w.* 1 f.  $\mathcal{U}$ . Sandy banks. rd. W.
1231. *S. dulcamara*, *Linn.* Bitter-sweet. Woody night-shade. July–Aug. *p.* Climbing.  $\mathfrak{h}$ . Low grounds. W. Narcotic, alterative. Eb. Mat. Med. ii. 77. Big. Med. Bot. i. 169.
1232. *S. triflorum*, *Nutt.* July. *w.* 1 f. Mo. Ter. *Nutt.* The exotic species *S. tuberosum*, (potato,) and *S. lycopersicum* (tomatoes) are every where cultivated.
1233. *Physalis obscura*, *Michx.* Aug. *y* & *p.* 1 to 2 f.  $\odot$ . Hills, &c. O. Ky.
1234. *P. viscosa*, *Linn.* Ground cherry. July–Aug. *y.* 2 to 3 f.  $\mathcal{U}$ . rd. W.
1235. *P. pennsylvanica*, *Linn.* July–Sept. *y.* 1 f.  $\mathcal{U}$ . Berries red. rd. &c. W.
1236. *P. lanceolata*, *Linn.* Narrow-leaved ground cherry. July. Pale *y.* 1 to 2 f.  $\mathcal{U}$ . bt. rd. Miami country.
1237. *P. pubescens*, *Willd.* July. *y.*  $\odot$ . Rocky banks of the Miss. *Bk.*
1238. *P. philadelphicum*, *Lam.* July. *y* & *p.*  $\odot$ . West Va. *Paddock.*
1239. *Nicandra physaloides*, *Pers.* July–Aug. Pale *b.* 2 to 3 f.  $\odot$ . cf. Intr. O. Ky.
1240. *Nicotiana rustica*, *Linn.* Tobacco. July. *g-y.* 12 to 18 i. *Bk.*  $\odot$ . Intr? Cultivated by the Indians of the Mississippi and Missouri. *Nutt.*

1241. *N. tabacum*, *Linn.* Virginian tobacco. July. *w-r*. 3 f. ☉. Intr? Naturalized in Tenn. *Nutt.* Narcotic, emetic, diuretic. *Big.* ii. 171.
1242. *N. quadrivalvis*, *Pursh.* July. *b-w*. 1 to 2 f. ☉. Cultivated by the Western Indians. *Nutt.*
1243. *Datura stramonium*, *Linn.* Thorn-apple. Jamestown-weed. July-Sept. *b & w*. 2 to 5 f. ☉. rd. &c. Narcotic. *Big.* i. 17.  
*b. var. tatula*, *Torr.* Stem and flowers purple. *W.*
1244. *D. metel*, *Linn.* Aug. *w*. 3 to 4 f. ☉. Intr. Ohio banks. Dr. Locke informs me that the seed has doubtless been transported by the waters of the river, from Pittsburgh, where the plant was some years since cultivated in a garden.
1245. *Hioscyamus niger*, *Linn.* Henbane. June. *y & p*. 12 to 18 i. ☉. or ♂. Waste places. Naturalized near Detroit. *Eat.* Narcotic, diaphoretic, diuretic, laxative. *Big.* i. 161.
1246. *Androcera lobata*, *Nutt.* July-Aug. ☉. Arid soils. *Plt. Nutt.*
1247. *Verbascum thapsus*, *Linn.* Mullein. June. *y*. 3 to 6 f. ♂. rd. *W.* Demulcent, emollient. Woodville Med. Bot. 202. Some practitioners in Ohio, regard it as a valuable diuretic in gonorrhœa.
1248. *V. blattaria*, *Linn.* Moth mullein. June-July. *w*, *w & r*, or *y*. 2 f. ♂. rd. bt. *W.*
1249. *V. lychnitis*, *Linn.* June-July. Pale *y*. ♂. Louisville. *M'Murt.*

## CCXIV. ACANTHACEÆ.—THE JUSTICIA TRIBE.

1250. *Justicia pedunculosa*, *Michx.* Justicia. Water-willow. July-Aug. *r & w*. (Pale *p. Bk.*) 2 f. 4. rb. In water. *W.*
1251. *J. brachiata*, *Pursh.* July. *r*. 4. Ark. riv. *Jas.*
1252. *Ruellia strepens*, *Linn.* Herb rucl. July. *b & p*. 1 to 2 f. 4. bt. ow. *W.* The leaves are subacrid. *Ainslie.* ii. 153.
1253. *R. oblongifolia*, *Michx.* July.-Oct. *b & p*. 8 to 12 i. 4. dp. Central O.
1254. *R. ciliosa*, *Pursh.* June-Sept. *w & p*. 3 to 24 i. 4. Banks of the Miss. *Bk.*

## CCXV. PEDALINEÆ.—THE OIL-SEED TRIBE.

1255. *Martynia proboscidea*, *Linn.* Unicorn plant. Aug.-Sept. *y & br*. 1 to 2 f. ☉. River banks. *W.*

CCXVII. *BIGNONIACEÆ*.—THE TRUMPET-FLOWER TRIBE.

1256. *Bignonia radicans*, *Linn.* Trumpet-flower. July–Aug. *r.* Creeping on trees, &c. 30 to 70 f. *h.* bt. Banks of streams. *W.*
1257. *B. capreolata*, *Michx.* *Ap.* *r* & *y.* Climbing over small trees. *h.* Dry soils. *Ky.* *Eat.*
1258. *Catalpa cordifolia*, *Ell.* July. *w, y* & *p.* Sometimes 40 to 50 f. *h.* About old Indian encampments. *W.* Intr.? Wood durable.

CCXX. *VERBENACEÆ*.—THE VERVAIN TRIBE.

1259. *Verbena stricta*, *Vent.* Branchless vervain. July–Aug. *b.* 2 to 4 f. *u.* rd. bt. Miami-country. *W.*
1260. *V. hastata*, *Linn.* Vervain. July–Aug. *b.* 3 to 5 f. *u.* Low grounds. *W.* Some of the Thompsonians regard this a useful medicinal agent, possessing emetic, cathartic, sudorific and tonic qualities.
1261. *V. urticifolia*, *Linn.* Nettle-leaf vervain. White vervain. July–Aug. *w.* 2 to 3 f. *u.* rd. ow. *W.* Said to possess virtues similar to the last.
1262. *V. spuria*, *Linn.* Aug.–Oct. *b.* Decumbent. 1 to 2 feet long. *o.* Sandy fields. *Bk.* On slate hills and limestone rocks, *Ill.* *Ky.* *Pursh.*
1263. *V. angustifolia*, *Michx.* June–Aug. *b.* 1 f. *u.* *u.* Prairies near St. Louis mine district. *Bk.*
1264. *V. bracteosa*, *Michx.* July. *p.* *u.* *Ky.* *St.* *L.* *Jas.*
1265. *V. aubletia*, *Linn.* May–Sept. *p.* Assurgent. *u.* Rocky banks of the Miss. *Jas.*
1266. *V. paniculata*, *Lam.* July–Aug. *p.* 4 to 6 f. Louisville. *M. Murt.*
1267. *V. caroliniana*, *Linn.* May–July. 2 f. *u.* Louisville. *M. Murt.*
1268. *V. bipinnatifida*, *Nutt.* June. *b.* *u.* Lead mines of Missouri. *Jas.*
1269. *Zapania nodiflora*, *Lam.* Fog-fruit. July. *w.* Creeping, 6 to 8 inches long. Peduncle 4 to 6 i. *u.* rb. bt. *W.*
1270. *Z. lanceolata*, *Pursh.* July. *w.* Creeping, 6 to 8 i. Peduncle 4 to 6 i. *u.* Banks of streams. *Plt.* *Jas.*
1271. *Z. cuneifolia*, *Torr.* Procumbent? Peduncles long. *Plt.* *Jas.*
1272. *Phryma leptostachya*, *Linn.* Lopseed. July. *w-p.* 2 to 3 f. *u.* sw. *W.*

CCXXI. *LABIATÆ*.—THE MINT TRIBE.

“Their tonic, cordial, and stomachic qualities, due to the



presence of an aromatic volatile oil and a bitter principle, are the universal feature of Labiataë, which do not contain a single unwholesome or even suspicious species." Lind. Nat. Syst. 238.

§ I. *Menthoideæ*.—Mint like.

1273. *Mentha piperita*, Linn. Peppermint. July. *p.* 12 to 15 i. 4. mh. &c. Native? near Worthington, O. Generally Intr. W. Aromatic, stimulant. Wood & Bache, 413.
1274. *M. viridis*, Linn. Spearmint. July–Aug. Pale *p.* 12 to 18 i. 4. Wet grounds. O. Ky. Aromatic, stimulant, &c. Woodville's Med. Bot. 338. Diuretic?
1275. *M. borealis*, Michx. Northern mint. July–Aug. *w.* or pale *p.* 1 to 2 f. 4. rb. Moist grounds. O. Ky.
1276. *M. tenuis*, Michx. Slender spearmint. June. *w.* 1 to 2 f. 4. Low grounds. O. Ky.
1277. *M. canadensis*, Linn. Canadian mint. Aug.–Sept. Pale *p.* 1 f. 4. Sandy soils. Prairies near St. L. Bk.
1278. *M. arvensis*, Linn. Field mint. July. Pale *p.* 1 f. 4. Naturalized on Duncan's plains. O. (Cornfields. Smells like decayed cheese. Hooker.)
1279. *Isanthus cœruleus*, Michx. Isanthus. July–Aug. *b.* 1 f. 0. rd. bt. dp. W.
1280. *Lycopus virginicus*, Linn. Bugle weed. June–Aug. *w.* 1 to 2 f. 4. Wet places. rb. O. Ky. Mild narcotic, astringent, &c. Used to allay hæmoptysis. N. York Med. and Phys. Jour. i. 179.
1281. *L. europæus*, Linn. Water horehound. Aug. *w.* 1 to 2 f. 4. Wet places. Astringent, &c.

§ 2. *Satureineæ*.—Rosemary like.

1282. *Pycnanthemum incanum*, Michx. Wild basil. July–Sept. Pale *r.* 2 to 3 f. 4. Low fields. Mar. O. Ky.
1283. *P. aristatum*, Michx. July–Aug. *w.* 1 to 2 f. 4. Woods. Tenn. Bk. Louisville. M Murt. O. Ky. Nutt.
1284. *P. lanceolatum*, Pursh. July–Aug. *w* & *p.* 2 f. 4. dp. O. Ky. Abundant on prairies up the Miami river.
1285. *P. linifolium*, Pursh. Virginian thyme. July–Aug. *w.* 1 to f. 4. Prairies and woods. O. Ky. This fragrant plant is used medicinally by the inhabitants of Sandusky plains, O.
1286. *P. pilosum*, Nutt. June. 18 to 24 i. Prairies near St. L. Bk. Glades of Ky. and Tenn. Nutt.
1287. *Thymus serpyllum*, Linn. Wild thyme. July. *p* or *w.* Spreading. 4. Naturalized in a few localities, O.
1288. *Origanum vulgare*, Linn. Marjoram. July–Sept. *w-p.*



- 8 to 12 i. 4. Louisville. *MMurt.* Tonic, excitant, diaphoretic, emenagogue. Wood & Bache, 473.
1289. *Hyssopus nepetoides*, *Linn.* Giant hyssop. July. *y-w*, or *w-p*. 3 to 6 f. 4. ow. W.
1290. *H. scrophularifolius*, *Linn.* July-Aug. *p*. 2 to 4 f. 4. O. Ill.

§ 3. *Ajugoideæ*.—Germander like.

1291. *Teucrium canadense*, *Linn.* Wild germander. July-Aug. *w & r*. 2 to 3 f. 4. Thickets, low grounds. W.
1292. *T. virginicum*, *Linn.* Aug. 4. Low grounds. W. *Bk.*
1293. *Trichostemma dichotoma*, *Linn.* Blue curls. June-Aug. *b*. 6 to 12 i. ☉. Dry hills. Ky. *St. W. Bk.*
1294. *Collinsonia canadensis*, *Linn.* Horse-balm. Rich-weed. July-Sept. *y*. 2 to 3 f. 4. sw. The root is by some regarded as diuretic and antilithic. There is a notion extant that it will relieve after pains. See *Raf. Med. Fl. i.*

§ 4. *Monardææ*

1295. *Monarda coccinea*, *Michx.* Wild balm. Oswego tea. July-Aug. *Crimson*. 2 to 3 f. 4. Swamps. Cultivated in Ohio, indigenous east of the Allegh. Mts.
1296. *M. allophylla*, *Michx.* Mountain balm. July. Pale *b*. 3 to 4 f. 4. Rocky woods. Ky. *St.*
1297. *M. fistulosa*, *Linn.* July-Aug. Pale *y*. 2 f. 4. Rocky banks, &c. O. Ky. Nervine, stomachic, deobstruent. Hoop. Dic.
1298. *M. clinopodia*, *Linn.* July-Sept. Pale *p*. 3 f. 4. Woods. O.
1299. *M. punctata*, *Linn.* Horse-mint. Sept. *y* and brown. 2 to 3 f. ♂. and 4. Pine barrens. Mo. *Ter. Jas. W. Bk.* Stimulant, carminative, rubefacient. *Ame. Med. Rec. ii. 496. Raf. Med. Bot. ii. 38.*
1300. *M. hirsuta*, *Pursh.* Ohio horse-mint. June-July. Pale *b*. and *p*. 2 to 3 f. 4. Low woods. bt. W. The properties are said to be similar to the last.
1301. *M. Beckii*, *Eat.* Near St. L. *Bk.*
1302. *M. ciliata*, *Linn.* Aug. *p*. 4. Mich. *Eat.* Ky. *St. Mo. Ter.*
1303. *M. rugosa*, *Ait.* July. *w*. 4 f. 4. Pittsburgh, *Peter.*
1304. *M. scabra*, *Bk.* Aug. *p*. 3 f. 4. Woods on the banks of the Miss. *Bk.*
1305. *M. bradburiana*, *Bk.* July. *w & p*. 2 to 3 f. 4. Barrens N. of St. L. *Bk.* Miami country. Duncan's plains, O.
1306. *Cunila mariana*, *Linn.* Dittany. July-Aug. Pale *r*. 1

- to 2 f. 4. Rocky hills. Mar. O. Ky. Pleasant aromatic. For its medicinal virtues, see Raf. Med. Bot.
1307. *C. glabella*, Michx. Aug. p. 8 to 10 i. 4. Among limestone rocks. Frankfort, Ky. St. W. Bk.
1308. *Tullia pycnanthemoides*, Leavenworth. Eat. Aug. r-p. 2 to 3 f. 4. Tenn. Leavenworth.
- § 5. *Nepeteæ*.—Catmint like.
1309. *Galeopsis tetrahit*, Linn. Hemp nettle. Flowering nettle. July. r, w & p. 1 to 2 f. ☉. Waste places. Mich. Houghton.
1310. *Leonurus cardiaca*, Linn. Motherwort. July-Aug. w & r. 2 to 3 f. 4. rd. & c. Intr. O. Ky. Said to promote uterine discharges, and allay palpitation of the heart. Hoop. Dic.
1311. *Lamium amplexicaule*, Linn. Dead nettle. Hen-bit. May-Nov. r. 6 to 8 i. ☉. rd. O. Ky. Intr?
1312. *L. hispidulum*, Michx. w. Shady woods of Tenn. Michx. Louisville. M Murt.
1313. *Dracocephalum virginianum*, Linn. Dragon-head. June?—Sept. p. 1 to 2 f. 4. Prairies. W.
1314. *D. variegatum*, Vent. June?—Aug. p & w. 3 f. 4. wp. Duncan's plains, O. Ky.
1315. *D. cordatum*, Nutt. June. b. 1 f. 4. On the shady islands of the Ohio, 40 miles below Pittsburgh.
1316. *D. parviflorum*, Nutt. July. w. ♂. Mo. Ter. Nutt.
1317. *Nepeta cataria*, Linn. Catmint. June—Sept. w & r. 2 to 3 f. rd. & c. Intr. W. Recommended in uterine diseases, dyspepsia, flatulency, & c. Hoop. Dic. A favourite remedy for colds in domestic practice.
1318. *Synandra grandiflora*, Nutt. June. y-w. 1 f. 4? rs. sw. O. Ky. & c.
1319. *Stachys aspera*, Michx. Hedge nettle. July. p. 1 f. 4. Fields, & c. W.
1320. *S. sylvatica*, Nutt. Aug. p & w. 1 to 2 f. 4. sw. W.
1321. *S. intermedia*, Ait. (Aug. w & r. 1 to 2 f. 4. Woods. O.)?
1322. *Glechoma hederacea*, Linn. Ground ivy. May-June. b. Decumbent, 1 f. rd. ow. O. Ky. A tonic beverage is often made from it. Lind. Nat. Syst. 238.
1323. *Marrubium vulgare*, Linn. Horehound. July-Aug. w. 12 to 18 i. 4. rd. W. Tonic, deobstruent. Wood & Bache, 409.
1324. *Melissa officinalis*, Linn. Balm. July. b. 4. rd. Intr. and naturalized near Louisville. M Murt. Formerly used in nervous diseases. Hoop. Dic.

1325. *Hedeoma pulegioides*, Pers. Pennyroyal. July–Aug. *w-p*. 6 to 10 i. ☉. ow. rd. &c. W. Stimulant, aromatic, emenagogue. Bart. ii. 168.
1326. *H. glabra*, Pers. Aug. (*r-p*)? 6 to 12 i. 4. Ohio riv. Nutt. Near Wor. O.
1327. *H. hispida*, Pursh. July. 3 to 6 i. ☉. Banks of the Miss. Bk. Mo. Ter. Nutt.
1328. *Clinopodium vulgare*, Linn. Field thyme. July–Aug. *p*, or *r*. 12 to 18 i. 4. Rocky woods. W. Bk. Thickets near Mar. O.
1329. *Prunella vulgaris*, Linn. Self-heal. June–Aug. *p*. 8 to 12 i. 4. md. W. Astringent, &c. Used as a gargle. Hoop. Dic.
- Scutellaria*.—Scull-cap. The western species are probably all good diaphoretics.
1330. *Scutellaria galericulata*, Linn. Aug. *b*. 12 to 18 i. 4. Near marshes. Ky. St. See Hoop. Dic.
1331. *S. lateriflora*, Linn. Mad dog scull-cap. July–Aug. *b*. 1 to 2 f. 4. md. ow. wp. W. Famous some years since for its supposed efficacy in hydrophobia.
1332. *S. parvula*, Michx. June. *b*. 3 to 6 i. 4. Ky. St.
1333. *S. lævigata*, Aikin. May. *b*. 12 to 18 i. 4. Mar. O?
1334. *S. integrifolia*, Linn. June. *b*. 18 to 24 i. 4. Swamps. W. Bk.
1335. *S. cordifolia*, Michx. June. *b* & *w*. 18 to 30 i. 4. Woods. W.
1336. *S. canescens*, Nutt. July. *b*. 2 to 3 f. 4. Woods. W. Prairies near St. L. Bk. Ky. St. O. Nutt.
1337. *S. gracilis*, Nutt. June. *b*. 12 to 18 i. 4. Shady rocks. Ky. St.
1338. *S. ovalifolia*, Pers. June. *b*. Assurgent, 1 f. 4. Woods. W.
1339. *S. ambigua*, Nutt. Pale *b*. 4 to 6 i. 4. Dry open forests, O. Nutt. Ky. St.
1340. *Salvia claytoni*, Ell. Vervain sage. June–Oct. *p*. 8 to 12 i. 4. Woods. Ky. Eat.
1341. *S. lyrata*, Linn. Wild sage. May–June. *b*. 1 f. 4. Woods. West Va. Padd. Ky. St.  
*b*. var. *obovata*, Eat. rb. Cincinnati.
1342. *S. trichostemmoides*, Pursh. *b*. ☉. Mo. Ter. Jas.

## CCXXII. BORAGINÆE.—THE BORAGE TRIBE.

Generally possess emollient properties. Lind. 239.

1343. *Lithospermum arvense*, Linn. Corn gromwell. Stone-seed. Ap.–May. *w*. 8 to 15 i. Fields, Ky. St. Formerly supposed to be diuretic and lithontriptic.

1344. *L. latifolium*, Michx. Broad-leaf gromwell. July. *y.* 2 f. 4. sw. O. Ky.
1345. *L. angustifolium*, Michx. July. *w.* ☉. Shady woods on the Ohio river. Michx. Council Bluffs, Mo. Ter. Jas.
1346. *L. apulum*, Willd. July. *y.* Dry woods, Ohio, Miss., &c. Pursh.
1347. *Batschia canescens*, Michx. Puccoon. June-July. Orange. 8 to 12 i. 4. Hills, &c. W. Used by the Indians as a red dye.
1348. *B. longiflora*, Nutt. July. *y.* Open plains. Prairie du Chien. Nutt.
1349. *Onosmodium hispidum*, Michx. Hairy gromwell. July-Aug. *w.* 2 to 3 f. 4. Borders of prairies. W.
1350. *O. molle*, Michx. July-Aug. *w.* 2 f. 4. W.
1351. *Symphitum officinale*, Linn. Comfrey. June. *y-w.* 1 to 3 f. 4. Intr. O. Hardly naturalized. Demulcent. Hoop. Dic.
1352. *Lycopsis arvensis*, Linn. Small bugloss. June-July. *b.* 12 to 18 i. ☉. Sandy fields. Intr? Prairies near St. Charles. Mo. Bk.
1353. *Myosotis arvensis*, Sibth. Field scorpion grass. June. *w.* 4 to 10 i. ☉. Sandy woods. Ohio. Eberle. Ky. St. St. L. Bk.
1354. *M. palustris*, Roth. Marsh scorpion grass. May-July. *b.* 12 to 18 i. 4. mh. Ditches, &c. Plt. Jas. Pittsburgh. Peter.
1355. *M. suffruticosa*, Torr. *b?* 8 i. Plt. Jas.
1356. *Echinosperrum virginicum*, Lehm. Rochelia virginiana, Torr. Beggar-lice. July-Sept. Pale *b* or *w.* 2 to 4 f. ♂. ow. W.
1357. *Cynoglossum officinale*, Linn. Hound's tongue. June-July. *r.* 2 to 3 f. ♂. rd. W. Intr. Narcotic and demulcent. Hoop. Dic.
1358. *C. amplexicaule*, Michx. Wild comfrey. May. *b.* 2 to 3 f. 4. sw. W.
1359. *C. pilosum*, Linn? May. *w.* Arid hills, above Rapid river, Mo. Ter. Nutt.
1360. *Pulmonaria virginica*, Linn. Lungwort. May. *b.* 6 to 12, and 24 i. 4. Low grounds. W. Astringent, demulcent, and pectoral. See Raf. Med. Fl.
1361. *P. lanceolata*, Pursh. June. *b.* 4. Mo. Ter. Nutt.

## CCXXIII. HELIOTROPIACEÆ.—THE HELIOTRPE TRIBE.

1362. *Heliotropum indicum*, Linn. Turnsole. Heliotrope. July. *b.* 8 to 12 i. ☉. Banks of streams. Cir. O. Ky.



1363. *H. curassavicum*, Linn. June-July. *w & y.* 6 to 12 i.  
 ☉? Plt. *Jas.*

CCXXVI. *HYDROPHYLLÆE*.—THE WATER-LEAF TRIBE.

1364. *Hydrophyllum virginicum*, Linn. Water-leaf. June.  
*w & b.* 18 i. 4. bt. sw. rs. W. Used as a potherb in  
 New York, under the name of John's cabbage.
1365. *H. canadense*, Linn. Burr-flower. June. *b & w.* 18 i.  
 4. Argillaceous soil. Woods, &c. O. Ky.
1366. *H. lineare*, Pursh. Ap. 4. Banks of the Missouri.  
*Lewis.*
1367. *H. hispidum*, *mihi*. Perennial?, whole plant hispid or  
 setose with terete, pointed white hairs: *leaves* mostly  
 radical, pinnatifid, lower lobes often isolated; lobes  
 obovate, border divided by shallow gashes into 5 to 8  
 rounded, ciliate, entire, mucronate lobuli, which to-  
 gether present a palmated appearance; general out-  
 line of the leaf oblong or oval, (4 to 8 inches long, 2 to 3  
 in width,) on petioles of equal length (4 to 8 inches).  
 The single cauline leaf does not vary essentially from  
 the above description. It is broader in proportion to  
 its length, and its petiole is much shorter. *Peduncle*  
 exceeding the leaves, 8 to 12 inches in height. *Flow-  
 ers* in cymose clusters as in *H. virginicum*; divisions of  
 the calyx broad subulate, pectinately setose; corol  
 campanulate, border with 5 rounded lobes; filaments  
 densely bearded in the middle, double the length of  
 the corol; style filiform, bifurcate to the extent of a  
 line; capsule 2-valved (1-celled, 2 to 4-seeded.)? This  
 description has been taken from dried specimens.  
 Flowers in June. Woods, O.
1368. *Nemophila paniculata*, Spreng. May. *b.* 1 f. ♂.  
 Woods. O. Ky.
1369. *Phacelia fimbriata*, Michx. Miami mist. May-June. *b.*  
 8 to 12 i. ☉? Fields and bottom lands. W.
1370. *P. bipinnatifida*, Michx. *Phacelia.* May. *b.* 1 f. 4?  
 Hill sides. Ky. Cin. O.
1371. *P. heterophylla*, Pursh. Various-leaved phacelia. July.  
*b.* ♂. Ky. St.
1372. *P. integrifolia*, Torr. Plt. *Jas.*
1373. *Ellisia nyctelea*, Linn. June. *w & b.* Decumbent. 6 to  
 8 i. ☉. Mo. Ter. *Jas.*
1374. *E. ambigua*, Nutt. May. *b.* Decumbent. 4 to 6 i. ☉.  
 Lead mines, Mo. *Jas.*



TRIBE II. GYMNOSPERMÆ.—Seeds destitute of a pericarp.

CCXXVIII. CONIFERÆ.—THE FIR TRIBE.

1375. *Juniperus communis*, Linn. Juniper. May. An evergreen shrub. Rocky banks of streams. Sandy shores of Lake Huron. *Nutt.* Berries stimulant and diuretic. Woodville's Med. Bot. 13. Big. iii. 44.
1376. *J. prostrata*, Michx. May. A low evergreen shrub, with creeping branches, 6 feet long. Sandy shores of Lake Huron. *Nutt.*
1377. *J. virginiana*, Linn. Red cedar. May. Middle-sized evergreen tree. Woods, rocky banks of streams, W. Secernant stimulant, emenagogue, diuretic, diaphoretic. Big. ii. 49. Timber durable.
1378. *J. sabina*, Willd. Savin. May. ½. Grows near Lake Superior. *Pitcher.* Properties like the last. Wood & Bache, 548.
1379. *Taxus canadensis*, Willd. Dwarf yew. March–April. 2 to 6 f. ½. Evergreen. Fruit red. rs. &c. Louisville. *M'Murt.*
1380. *Cupressus thyoides*, Linn. White cedar. May. An evergreen tree, 30 to 50 f. Swamps. rs. Rocky banks of the Scioto. Wood durable.
1381. *C. disticha*, Linn. Cypress. May. Large evergreen tree. Swamps. Ky. *St. W. Bk.* Timber very durable.

*Pinus*.—The pine family.

\* *Leaves in fascicles of 2 to 5, persistent, sheathing at base; scales of the cone thickened at the summit.* PINUS.

1382. *Pinus inops*, Ait. Scrub pine. Pitch pine. Jersey pine. May. Common-sized tree. Barrens, &c. Ky. *St.*
1383. *P. variabilis*, Lamb. Yellow pine. May. Large tree. Forests, on hills about Portsmouth, O. (?)
1384. *P. banksiana*, Lamb. Grey pine. Scrub pine. April–May. Small tree. rs. Mar. O. Rare.
1385. *P. strobus*, Linn. White pine. Weymouth pine. May. Large tree, 90 to 140 f. Fertile soils. East Ohio. Timber valuable.

\* \* *Leaves solitary, persistent, distinct at base; scales of the cone even and attenuated.* ABIES.

1386. *P. canadensis*, Linn. Hemlock tree. Hemlock spruce. May. Large tree. Woods. O. Scarce. Bark astringent; used in tanning leather. A fomentation of

the boughs is highly esteemed in domestic practice for its efficacy in subduing colds. Turpentine like that of all other species of *Coniferæ* stimulant, rubefacient, and diuretic.

1387. *P. nigra*, *Ait.* Black spruce. May. Large pyramidal tree. Swamps. Mich. *Eat.*  
 1388. *P. alba*, *Ait.* White spruce. May. Small tree. Swamps. Ky. *St.*

\* \* \* *Leaves many in a fascicle, deciduous.* LARIX.

1389. *P. pendula*, *Ait.* Tamarack. Hackmatack. Ap.-May. Middle-sized tree. Swamps. East Ohio. Bark tonic and diuretic, very highly esteemed by some practitioners.

## CLASS II.—ENDOGENÆ.

TRIBE I. PETALOIDEÆ.—*Calyx and corolla developed in 3 or 6 divisions; if absent, stamens and pistils naked.*

### CCXXIX. ALISMACEÆ.—THE WATER PLANTAIN TRIBE.

1390. *Alisma plantago*, *Linn.* Water plantain. July-Aug. w. 1 to 2 f. 4. mh. pl. W. One of the reputed remedies for hydrophobia. *Lind.* 251.  
 1391. *Sagittaria sagittifolia*, *Willd.* Arrow-head. Arrow-leaf. July-Aug. w. 1 to 2 f. 4. mh. pl. O. Ky.  
     *b. var. latifolia*, *Torr.* Leaves broad, rather obtuse. O.  
     *c. var. hastata*, *Torr.* Leaves subhastate. O.  
     *d. var. gracilis*, *Torr.* Leaves linear hastate. Dayton. O.  
 1392. *S. obtusa*, *Willd.* Blunt arrow-leaf. July. w. 1 to 2 f. 4. mh. wp. Ditches, &c. O.  
 1393. *S. pusilla*, *Nutt.* Aug. 2 to 4 i. 4. Muddy banks. Ky. *St.*

### CCXXXI. HYDROCHARIDEÆ.—THE FROG-BIT TRIBE.

1394. *Udora canadensis*, *Nutt.* Ditch moss. Aug. w. Submersed, 1 to 2 f. 4. pl. Ohio. Ky.  
 1395. *Vallisneria spiralis*, var. *americana*, *Torr.* Tape grass. Aug. w. 1 to 4 f. 4. In the still waters of rivers. W.

### CCXXXII. COMMELINEÆ.—THE SPIDER-WORT TRIBE.

1396. *Commelina communis*, *Linn.* Commelina. Aug. b. ☉. Ky. *St.*  
 1397. *C. virginica*, *Linn.* July. b. 2 f. 4. Woods. Ky. *St.*  
 1398. *Tradescantia virginica*, *Linn.* Spider-wort. May-July. p. 1 f. 4. sw. dp. O. Ky. Fig. Bart. Fl. N. A. ii. 17.

1399. *T. rosea*, Michx. May. r. 8 to 12 i. 4. Moist woods. Ky. St.

CCXXXIII. XYRIDEÆ.—THE YELLOW-EYED GRASS TRIBE.

1400. *Xyris caroliniana*, Walt. Yellow-eyed grass. July. y. 1 f. 4. wp. mh. md. O. Ky.

CCXXXIV. BROMELIACEÆ.—THE PINE-APPLE TRIBE.

1401. *Agave virginica*, Linn. False aloe. Sept. g-y. 6 f. 4. Rocky banks. Ky. St.

CCXXXV. HYPOXIDEÆ.—THE STAR-GRASS TRIBE.

1402. *Hypoxis erecta*, Linn. Star-grass. June-July. y. 4 to 6 i. 4. md. rs. ow. O. Ky. Figured, Bart. Fl. N. A. i. 124.

CCXXXVIII. AMARYLLIDEÆ.—THE NARCISSUS TRIBE.

1403. *Pancratium rotatum*, Ker. July. w. 4. Ky. St.  
1404. *Amaryllis atamasco*, Linn. Atamasco lily. June. w & r. Scape 6 i. Leaves 1 f. sw. Louisville. M'Murt. Said to grow in Indiana.

CCXXXIX. IRIDEÆ.—THE IRIS TRIBE.

1405. *Iris versicolor*, Linn. Blue flag. June. b, g & y. 2 to 3 f. 4. Margins of ponds, &c. O. Ky. Cathartic, emetic, diuretic. Big. i 155. By some said to be alterative.  
1406. *I. cristata*, Michx. April. b & y. 2 to 4 i. 4. Ky. St.  
1407. *I. verna*, Willd. May. b. 4. Ky. St.  
1408. *I. lacustris*, Nutt. June. Scape 1 i. Leaves 3 to 5 i. 4. Gravelly shores of Lake Huron. Nutt.  
1409. *Sisyrinchium anceps*, Linn. Blue-eyed grass. July. b. 1 f. 4. Pastures, &c. O. Ky. The Thompsonians use it as a cathartic, under the name of *physic-grass*.  
1410. *S. mucronatum*, Michx. July. b. 6 to 10 i. 4. Wet meadows. Ky. St. Plt. Jas.  
1411. *S. bermudianum*, Linn. June. b. 8 to 18 i. 4. Ill. Bk.

CCXL. ORCHIDEÆ.—THE ORCHIS TRIBE.

1412. *Goodyera pubescens*, Brown. Rattlesnake plantain. July-Aug. w. 6 to 10 i. 4. sw. O. Ky.  
1413. *Spiranthes tortilis*, Rich. Ladies' tresses. Aug.-Oct. (June-July. Bk.) w. 8 to 12 i. 4. wp. O. Ky. Fig. Bart. Fl. N. A. i. 124.  
1414. *S. cernua*, Rich. July-Aug. g-w. 6 i. to 2 f. 4. Moist grounds. West Va. Paddock.  
1415. *Pogonia ophioglossoides*, Brown. July. Pale p. 8 to 12 i. 4. bg. Sphagnous swamps. Ky. St. Fig. Bart. Fl. N. A. iii. 19.

1416. *P. verticillata*, *Nutt.* June-July. *y-r.* 1 f. 4. Swamps. Ky. *St. Mich. Eat.* Fig. Bart. Fl. N. A. ii. 92.
1417. *Callopogon pulchellus*, *Brown.* Grass pink. June-July. *p.* 12 to 18 i. 4. wp. Swamps. Ky. *St. Pickaway* plains, O. Fig. Bart. Fl. N. A. ii. 94.
1418. *Corallorhiza odontorhiza*, *Nutt.* Dragon's claw. Aug.-Sept. *Purplish.* 10 to 12 i. 4. Roots of trees. O. Ky.
1419. *Aplectrum hiemalis*, *Nutt.* Adam and Eve. May-June. *Brownish.* 1 f. 4. sw. bt. O. Ky. Fig. Bart. Fl. N. A. ii. 42. Root viscid.
1420. *Triphora pendula*, *Nutt.* Three-bird orchis. Sept. Pale *p.* 3 to 6 i. 4. sw. Roots of trees. O. Ky.
1421. *Orchis spectabilis*, *Linn.* Orchis. June. *p & w.* 6 to 8 i. 4. sw. O. Ky.
1422. *Habenaria tridentata*, *Hook.* June-July. *w.* 1 to 2 f.
1423. *H. ciliaris*, *Brown.* June-July. *Orange y.* 1 to 2 f. 4. Swamps. Ky. *St.*
1424. *H. huronensis*, *Spreng.* Aug. 4. Wet grounds. About Lakes Mich. and Huron. *Bk.*
1425. *H. fimbriata*, *Brown.* July. *p.* 2 f. 4. md. wp. O. Ky.
1426. *H. fissa*, *Brown.* July. Dark *p.* 2 to 4 f. 4. Prairies. O. Ky.
1427. *Platanthera orbiculata*, *Lind.* July. *g-w.* 12 to 18 i. 4. sw. Central, O. I have known the fleshy leaves of this plant, to be used and highly esteemed for dressing blisters.
1428. *Liparis liliifolia*, *Rich.* Malaxis, *Eat.* Twayblade. June-July. *w & y.* 6 to 8 i. 4. Wet woods. Central, O.
1429. *L. correana*, *Spreng.* Malaxis longifolia, *Eat.* June. *y-g.* 6 to 8 i. 4. sw. O. Fig. Bart. Fl. N. A. iii. 12.
1430. *Microstylis ophioglossoides*, *Nutt.* June. *g-w.* 6 to 9 i. 4. Roots of trees. O. Ky. Fig. Bart. Fl. N. A. iii. 60.
1431. *Bletia aphylla*, *Nutt.* Aug. *y & r.* 18 i. 4. Ky. *St.*
1432. *Calypso americana*, *Brown.* *p.* 6 to 8 i. Near the outlet of Lake Michigan. *Bk.*
1433. *Cypripedium pubescens*, *Swartz.* Ladies' slipper. May. *g-y.* 1 to 3 f. 4. Woods. O. Ky. Fig. Bart. Fl. N. A. iii. 9.
1434. *C. parviflorum*, *Willd.* Yellow ladies' slipper. May-June. *y.* 1 f. 4. Dry woods. W. Said to be excellent as a nervine, tonic, and antispasmodic. The powder of the root is administered in tea spoonful doses, for hysterical and other affections. The Thompsonians, by whom it is used, call it *umbil* and *wild valerian*. They

use all the species of *Cypripedium* indiscriminately.  
See Raf. Med. Fl.

1435. *C. candidum*, Willd. White ladies' slipper. May. w.  
6i. 4. Dayton, O. R. Buchanan, Esq.  
1436. *C. spectabile*, Swartz. Swamp ladies' slipper. May-  
June. w & p. 2 to 3 f. 4. mh. bg. W. Ky. St. Mich.  
Eat. Seven miles N. from Cin. O. Fig. Bart. Fl. ii. 87.  
1437. *C. acaule*, Ait. May-June. p. 1 f. 4. sw. Ky. St.  
Mich. Eat. Fig. Bart. Fl. iii. 35.

#### CCXLIV. JUNCÆ.—THE RUSH TRIBE.

*Juncus*.—Rush.

\* *Leaves none, flowers lateral.*

1438. *Juncus effusus*, Linn. Soft rush. June-July. 2 to 3 f.  
4. Wet grounds. Ky. St. Central Ohio.  
1439. *J. setaceus*, Rostk. Thread-form rush. July. 2 to 3 f.  
4. Swamps. Miami country.?

\*\* *Leaves all radical, flowers terminal.*

1440. *J. nodosus*, Linn. Knot-leaf rush. July-Aug. 8 to 12 i.  
4. Swamps. Low grounds. St. Mary's river. Hough.  
Cin. O.  
1441. *J. tenuis*, Willd. Slender spreading rush. June-July.  
10 i. 4. Low grounds. O. Ky.

\*\*\* *Stem leafy; leaves nearly plane, channelled above.*

1442. *J. bufonius*, Linn. Toad rush. Aug. 3 to 6 i. ☉. Moist  
places. Miami country.?  
1443. *J. marginatus*, Rostk. Aug. 1 to 3 f. 4. Low grounds.  
Miami country.?

\*\*\*\* *Stems leafy; leaves rounded or subcompressed, nodose-articulate.*

1444. *J. polycephalus*, Michx. Many-headed rush. July-Aug.  
2 to 3 f. 4. mh. &c. Worthington, O. Miami coun-  
try. N. W. Ter.  
1445. *J. acuminatus*, Michx. July. 12 to 18 i. 4. bg. &c.  
Cin. Colby.

1446. *Luzula campestris*, De Cand. Field wood-rush. April-  
May. 6 to 12 i. 4. md. Ky. St.

#### CCXLV. MELANTHACEÆ.—THE COLCHICUM TRIBE.

Acrid and poisonous in every species. Lind. 270.



1447. *Melanthium hybridum*. Bunch flower. June-July. *w.* 2 f. *4.* Mo. Ter. *Jas.*
1448. *M. virginicum*, *Linn.* Tall melanthium. July. *g-w.* 3 to 4 f. *4.* wp. md. mh. Pittsburgh. *Peter.* Louisville. *M Murt.* Prairies of Ohio.
1449. *M. glaucum*, *Nutt.* July-Aug. *w.* 1 f. *4.* Borders of Lake Erie, &c. in calcareous soil. *Nutt.*
1450. *Tofieldia glutinosa*, *Michx.* *4.* About Detroit. *Nutt.*
1451. *Helonias dioica*, *Pursh.* Blazing star. June. *w.* 1 to 2 f. *4.* Damp grounds. *W. Bk.* Dry open woods. Mar. O. Ky. Acrid, medicinal. An infusion of the root is anthelmintic; the tincture is tonic. *Lind.* 270.
1452. *Veratrum viride*, *Ait.* Poke root. American hellebore. June-July. *g.* 3 to 5 f. *4.* Swamps. md. Louisville. *M Murt.* Acrid, emetic, powerfully stimulant, followed by sedative effects. *Big.* ii. 125.
1453. *V. angustifolium*, *Pursh.* June. *g-w.* 2 to 3 f. *4.* Grassy prairies of Ohio and Tenn. *Nutt.* Ky. *St.*
1454. *Zigadenus elegans*, *Pursh.* Zigadene. June. *w.* *4.* Ark. *Jas.*

#### CCXLVI. PONTEDEREÆ.—THE PICKEREL WEED TRIBE.

1455. *Heteranthera reniformis*, *Michx.* Mud plantain. July-Aug. *w.* Sometimes partly floating. 4 to 8 i. *4.* rb. Mud. Ky. *St.* Lockbourne, O.
1456. *H. ovalis*, *Michx.* July. *b.* *4.* Ky. *St.*
1457. *Schollera graminifolia*, *Vahl.* Yellow-eyed water grass. July-Aug. *y.* Submersed. 6 to 30 i. *4.* In flowing streams. O. Ky. *Fig. Bart.* Fl. N. A. ii. 53.
1458. *Pontederia cordata*, *Linn.* Pickerel weed. Aug. *b.* 1 to 2 f. *4.* Ponds. Ky. *St.*
1459. *P. angustifolia*, *Pursh.* July. *b.* Ponds. Ky. *St.*

#### CCXLVII. ASPHODELEÆ.—THE ASPHODEL TRIBE.

1460. *Allium triflorum*, *Raf.* Leek. Mountain leeks. May-June. *w.* 6 to 8 i. *4.* Woods. Wor. O. Used as a potherb. The different species of *Allium* (including the garlic and cultivated onions) are more or less stimulant, diuretic, and expectorant. *Lind. Nat. Syst.* 272.
1461. *A. canadense*, *Linn.* Meadow garlic. May-June. Pale *r.* 18 i. *4.* md. O. Ky.
1462. *A. cernuum*, *Roth.* Nodding wild onion. July. Pale *r.* 1 to 2 f. *4.* dp. Hill sides. O. Ky.
1463. *A. tricoccum*, *Ait.* Three-seed leek. June-July. *w.* 1 f. *4.* Upland woods. Ky. *St.* O.

1464. *A. vineale*, *Linn.* Field garlic. June-July. Pale r.  
2 f. 4. md. Intr. Louisville. *MMurt.*
1465. *A. striatum*, *Pursh.* Scentless onion. Ap. w. 8 to 12 i.  
4. Pine barrens. *Ell.* Timbered alluvions near St. L.  
*Bk.*
1466. *A. angulosum*, *Linn.* w or p. 4. Damp. Mo. Ter. *Nutt.*
1467. *Aletris farinosa*, *Linn.* Star-grass. July. w. 2 f. 4.  
Sandy woods. Prairies of Mich. *Hough.* Louisville.  
*MMurt.* Tonic, stomachic, emetic in large doses. *Big.*  
Med. Bot. iii. 92.
1468. *Phalangium esculentum*, *Nutt.* Quamash. May. b. 12  
to 18 i. 4. bt. Hill-sides, &c. W. The root is an  
article of diet among the Indians of the Rocky Moun-  
tains. *Lewis.*
1469. *Brodiaea grandiflora*, *Smith.* Missouri hyacinth. April.  
4. Plains of the Missouri. *Lewis.*

## CCXLIX. SMILACEÆ.—THE SMILAX TRIBE.

*Smilax*.—Green brier.

The roots of several species (*S. sassaparilla*, *china*, *pseudo-china et aspera*) are much used in medicine, under the name of *sassaparilla*, for their alterative qualities. It is quite probable that some of our western species may be advantageously substituted for the worm-eaten, time-injured *sassaparilla* of the shops.

1470. *Smilax rotundifolia*, *Linn.* Green brier. June. w-g.  
Climbing. ½. Berries black. Thickets, &c. O. Ky.
1471. *S. pseudo-china*, *Linn.* May-June. Climbing. ½.  
Woods. Wor. O. Medicinal. *Ell.* Bot. iii. 700.
1472. *S. pandurata*, *Pursh.* July. Twining. ½. Berries black.  
Woods. Ohio.
1473. *S. walteri*, *Pursh.* July. ½. Berries red. Woods.  
Mar. O.?
1474. *S. cincidifolia*, *Pursh.* ½. Wor. Mar. O.
1475. *S. hastata*, *Willd.* July. Twining. ½. Rich shaded  
soils. Louisville. *MMurt.*
1476. *S. bona-nox*, *Linn.* Vine. ½. Margins of swamps. Ky.  
*St.*
1477. *S. caduca*, *Linn.* June. ½. Dry fields. Louisville.  
*MMurt.*
1478. *S. peduncularis*, *Muhl.* June. w-g. Climbing 3 to 5 f.  
4. Low woods. O. Ky.
1479. *S. herbacea*, *Linn.* June-July. g. 2 to 3 f. 4. Woods.  
Ky. *St.* Cin. O. Fig. Bart. Fl. N. A. ii. 99

*Convallaria*.—Solomon's seal.

1480. *Convallaria bifolia*, Linn. May. *w*. 4 to 6 i. 4. *rs. sw.* Wor. O.  
 1481. *C. trifolia*, Linn. June–July. *w*. 6 i. 4. Alpine swamps. Mich. *Eat.*  
 1482. *C. stellata*, Linn. May–June. *w*. 1 f. 4. River banks. Ohio. *Paddock.*  
 1483. *C. racemosa*, Linn. June–July. *g-w*. 18 to 24 i. 4. Woods. W. Medicinal. See 1484.  
 1484. *C. multiflora*, Linn. Solomon's seal. June–July. *g-w*. 2 to 3 f. 4. *ow. bt. W.* Astringent, corroborant, *Beach.* Raf. Med. Fl.  
 1485. *C. pubescens*, Pursh. May–June. *y-w*. 18 i. 4. *rs.* Ohio. *Paddock.*  
 1486. *C. majalis*, Willd. Lily of the valley. June. *w*. 4. Louisville. *M'Murt.*  
 1487. *Streptopus lanuginosus*, Michx. May. *g-y*. 18 i. 4. Woods. Ky. *St.*  
 1488. *Medeola virginica*, Linn. Cucumber root. May–June. *y*. 12 to 18 i. 4. Woods. W. Diuretic, hydragogue. Bart. ii. 147. Raf. Med. Fl.  
 1489. *Uvularia perfoliata*, Linn. Bellwort. May–June. Pale *y*. 8 to 12 i. 4. Shady hills. W. The root is an empirical remedy for snake bites. Fig. Bart. Fl. N. A. i. 112.  
 1490. *U. grandiflora*, Smith. Large bellwort. June. *y*. 10 to 20 i. 4. *rs. W.* Reputed virtues like the last.  
 1491. *U. sessilifolia*, Linn. May. Pale *y*. 8 to 10 i. 4. *sw. W.* Fig. Bart. Fl. ii. 55.

*Trillium*.—Birthroot. Wake-robin. *Trillium*.

According to De Candolle, the roots of these plants are violently emetic. Lind. 276. Dr. Beach regards them as astringent, pectoral, tonic, antiseptic and alterative. Beach's Am. Pract. In domestic practice they are administered preparatory to parturition, and hence the name *birthroot*.

1492. *Trillium sessile*, Linn. April–May. Dark *p*. 8 i. 4. Fertile woods. W.  
 1493. *T. recurvatum*, Bk. Bot. 300. May. *p*. 8 to 10 i. 4. *sw.* On the Miss. &c. *Bk.*  
 1494. *T. viride*, Bk. Ap. Dark *g*. 8 to 12 i. 4. *sw. W.* *Bk.*  
 1495. *T. pendulum*, Willd. May. *w* with *r* veins. 1 f. 4. Mts. Ky. *St.*

1496. *T. erectum*, *Linn.* May. Dark p. 12 to 15 i. 4. sw. W. Ky. St. Ill. riv. Bk. O.  
 b. var. *album*, *Pursh.* May. w. 12 to 15 i. 4. sw. O.
1497. *T. grandiflorum*, *Salisb.* May. w. 8 to 12 i. 4. md. ow. W.
1498. *T. cernuum*, *Linn.* May. w. 12 to 18 i. 4. sw. Ky. St. Fig. Bart. Fl. ii. 15.
1499. *T. ovatum*, *Pursh.* Ap. p. 4. Northern Andes. *Nutt.*
1500. *T. nivale*, *mihi.* Root perennial, tuberous præmorse, of a sweet and mawkish taste. Stem glabrous, 2 to 3 inches high. Leaves short petioled, oval, obtuse, 12 to 16 lines long, 8 to 10 lines wide, glabrous, 5-nerved. Peduncle erect, near 4 lines in length. Sepals lance-ovate, obtuse, 5-nerved. Petals spatulate-obovate, obtuse, nerved, white, 6 to 8 lines in length, one third longer than the calyx. Flowers in March. I have met with this interesting plant only on the east bank of the Scioto river, near Dublin, inhabiting a steep declivity, among comminuted fragments of limestone. Its delicate white blossom is one of the earliest of that region.

## CCL. DIOSCOREÆ.—THE YAM TRIBE.

1501. *Dioscorea villosa*, *Linn.* Yam root. China root. May–June. y–w. Climbing vine, 6 to 12 f. 4. Root woody, tortuous, echinate. ow. bt. W. An infusion of the root is unquestionably a valuable remedy in bilious colic. An ounce of the powdered root is to be boiled in a pint of water, and half of it given at once. It acts with remarkable promptitude. I have been informed that Dr. Miller of Neville, Ohio, values the tincture highly as an expectorant. He says it is also diaphoretic, and in large doses emetic.

## CCLI. LILIACEÆ.—THE LILY TRIBE.

1502. *Lilium canadense*, *Linn.* Turk's-cap. Nodding lily. July–Aug. y and orange, with dark spots. 2 to 3 f. 4. md. wp. W.
1503. *L. superbum*, *Linn.* Superb lily. July. Orange with dark spots. 4 to 6 f. 4. Wet meadows. Ky. St.
1504. *L. philadelphicum*, *Linn.* July–Aug. Dark orange, spotted at the base. 18 i. 4. Darby Plains, O.
1505. *L. catesbæi*, *Walt.* Catesby's lily. June–Aug. r. Spotted with y and brown. 18 i. 4. Sandy meadows. Ky. St. Prairies near St. L. Bk.
1506. *Yucca angustifolia*, *Pursh.* Adam's needle. July. w. 4. Banks of the Missouri. Plt. *Nutt.*
1507. *Erythronium americanum*, *Smith.* Adder-tongue. Dog-

tooth violet. Ap.-May. *y.* 6 to 8 i. *4.* bt. ow. W. Emetic. Big. Am. Med. Bot. iii. 51.

1508. *E. albidum*, *Nutt.* White erythronium. April-May. *x.* 6 i. *4.* bt. W.

CCLIII. *RESTIACEÆ*.—THE PIPEWORT TRIBE.

1509. *Eriocaulon pellucidum*, *Michx.* Pipewort. Aug. *x.* 4 to 8 i. *4.* In ponds. New York. Lake Sup. *Houghton.* Perhaps in the interjacent regions.

CCLV. *TYPHACEÆ*.—THE REED-MACE TRIBE.

1510. *Typha latifolia*, *Linn.* Reed-mace. Cat's-tail. Cat-tail flag. July-Aug. 5 to 6 f. *4.* mh. pl. Ohio. Ky. The leaves are used by coopers, for rendering barrels tight.
1511. *T. angustifolia*, *Linn.* Lesser reed-mace. July-Aug. 4 to 5 f. *4.* mh. pl. Central O.
1512. *Sparganium americanum*, *Nutt.* Burr reed. Aug. 1 f. *4.* Ponds and lakes. O. Ky.
1513. *S. ramosum*, *Smith.* Branched burr reed. July-Aug. 2 f. *4.* pl. Stagnant waters. Louisville, *M'Murt.*
1514. *S. angustifolium*, *Michx.* Floating burr reed. Aug. *4.* Lakes, &c. Ponds on Darby Plains, O.?

CCLVI. *AROIDEÆ*.—THE ARUM TRIBE.

1515. *Arum triphyllum*, *Linn.* Indian turnip. May-June. *g, y & p.* 1 to 2 f. *4.* sw. W. Acrid irritant, secretant stimulant, pectoral. Big. Med. Bot. i. 52.
1516. *A. dracontium*, *Linn.* Green dragon. June-Jul. 1 f. *4.* sw. bt. W.
1517. *Leontia virginica*, *Cooper.* Poison arum. July. 12 to 18 i. *4.* wp. Walnut plains, Picaway Co. O. Louisville. *M'Murt.*
1518. *Symplocarpus fœtidus*, *Nutt.* Skunk cabbage. March. *p, g & y.* 1 to 2 f. *4.* Wet woods and meadows. W. Stimulant, antispasmodic, narcotic. Bart. Med. Bot. i. 123. Big. Med. Bot. ii. 41.
1519. *Orontium aquaticum*, *Linn.* Golden club. May. *y.* 12 to 20 i. *4.* In water. Louisville. *M'Murt.* Fig. Bart. Fl. N. A. ii. 1.
1520. *Acorus calamus*, *Linn.* Sweet flag. June. *g-w.* 2 to 3 f. *4.* Swamps. W. Stimulant, tonic, stomachic. Bart. Med. Bot. ii. 63.

CCLVIII. *FLUVIALES*.—THE POND-WEED TRIBE.

1521. *Caulinia fragilis*, *Willd.* Water knot-grass. Aug. 1 to 3 f. submersed. O. pl. Miami country.



*Potamogeton*. Pond weed.\* *Upper leaves floating.*

1522. *Potamogeton natans*, *Linn.* Pond-weed. July-Aug.  
1 to 4 f. 4. Ponds and lakes. O. Ky.  
1523. *P. fluitans*, *Linn.* River-weed. July-Aug. 1 to 4. 4.  
Running streams. Ohio.  
1524. *P. heterophyllum*, Various-leaved pond-weed. Aug.  
2 to 3 f. 4. pl. A pond 6 miles east from Cin. O.

\*\* *Leaves all submersed.*

1525. *P. perfoliatum*, *Linn.* Perfoliate pond-weed. July. 4.  
pl. Louisville. *MMurt.*  
1526. *P. lucens*, *Linn.* Shining pond-weed. Aug. Long and  
large. 4. pl. Streams, &c. Ky. St.  
1527. *P. compressum*, *Linn.* Flat-stem pond-weed. July-Aug.  
Small, branched; leaves 2 i. 4. In water. Ky. St.  
Old River, Hamilton, O.  
1528. *P. pectinatum*, *Linn.* Fennel-leaved pond-weed. June.  
1 to 2 f. 4. pl. Rivers. Ohio.  
1529. *P. pauciflorum*, *Pursh.* *P. gramineum*, *Michx.* Grass-  
leaved pond-weed. July-Aug. 8 to 18 i. 4. pl. &c.  
O. Ky.  
1530. *P. acutifolium*, *Link.* Sharp-leaved pond-weed. July.  
4. pl. Ky. St. Leaves linear, acuminate, 3-nerved;  
spike oval, compact, equal in length to the peduncle.  
*Hook. Brit. Fl. 74.*

CCLIX. *JUNCAGINEÆ*.—THE ARROW-GRASS TRIBE.

1531. *Triglochin maritimum*, *Linn.* Arrow-grass. July. *g.*  
18 i. 4. Salt marshes usually. West to Mich. *Bk.*

CCLX. *PISTIACEÆ*.—THE DUCKWEED TRIBE.

1532. *Lemna trisulca*, *Linn.* Duck's meat. Ivy-leaved duck-  
weed. July. Floating and submersed, detached.  
6 lines. ☉. pl. Ky. St. Miami country.  
1533. *L. polyrhiza*, *Linn.* Duckweed. June-July. Float-  
ing, detached. 3 to 4 lines. ☉. pl. Mich. *Eat. O.*  
1534. *L. minor*, *Linn.* Lesser duckweed. Water flax-seed.  
June-July. Floating, detached. 1 to 2 lines. ☉.  
pl. O. Ky.

TRIBE II. GLUMACEÆ. Flowers enveloped in glumaceous bracts, destitute of the true calyx and corolla.

CCLXI. GRAMINEÆ.—THE GRASS TRIBE.

DIV. I. AGROSTIDEÆ.

*Agrostis*. Bent grass.

- 1535. *Agrostis vulgaris*, *Smith*. Red-top. July. 18 to 20 i. 4. md. W. Intr.
- 1536. *A. alba*, *Linn*. Bonnet grass. Aug. 18 i. O. md. St. L. Bk. Cin. O. *Colby*.  
b. var. *decumbens*, *Eat.* Fiorin grass. Dry pastures and woods, Germantown, O. *Frank*.
- 1537. *A. lateriflora*, *Michx.* Aug.—Sept. 2 f. 4. Swamps, wp. W. Ky. St. Cin. *Colby*. Germantown. *Frank*. Dayton, O.
- 1538. *A. tenuiflora*, *Willd.* July—Aug. 3 f. 4. Rocky woods. Ky. St.
- 1539. *A. clandestina*, *Spreng.* Sept. 2 f. 4. Dry hills. Ky.? St.
- 1540. *A. dispar*, *Michx.* Ky.? St.
- 1541. *A. brevifolia*, *Nutt.* 1 f. Arid plains, Mo. Ter. *Nutt.*
- 1542. *A. cæspitosa*, *Torr.* 4 i. Plt. *Jas.*
- 1543. *Polypogon racemosum*, *Nutt.* Beard grass. Aug. 8 f. 4. Alluvions. Mo. & Miss. St. L. *Nutt.* 3 to 4 f. bg. W. Bk.
- 1544. *Cinna arundinacea*, *Willd.* Indian reed. Aug. 2 to 3 f. 4. Wet grounds, Ky. St.
- 1545. *Phleum pratense*, *Linn.* Herd's grass. Timothy grass. June—Aug. 2 to 3 f. 4. md. Intr. W.
- 1546. *Muhlenbergia diffusa*, *Schreb.* Drop-seed grass. July. 18 i. 4. Fields. O. Ky. *Nutt.* St.
- 1547. *M. erecta*, *Schreb.* July. 2 to 3 f. 4. rs. Woods. Germantown, O. *Frank*, Ky. St.
- 1548. *Phalaris americana*, *Ell.* American canary grass. July—Aug. 2 to 5 f. 4. Swamps, Louisville. *M. Murt.*
- 1549. *Trichodium laxiflorum*, *Michx.* Thin grass. May—June. 18 i. 4. Dry fields. O.
- 1550. *Alopecurus geniculatus*, *Linn.* Wild fox-tail grass. June. 12 to 18 i. 4. Wet meadows. St. L. Bk. N. W. Ter. *Houghton*.
- 1551. *A. pratensis*, *Linn.* Fox-tail grass. May—Aug. 2 to 4 f. 4. Fields and pastures. Intr. O. *Frank*.
- 1552. *Crypsis squarrosa*, *Nutt.* O. 3 to 4 i. Arid plains, Mo. Ter. *Nutt.*

## DIV. II. PANICEÆ.

*Panicum*. Panic grass.

1553. *Panicum crus-galli*, *Linn.* Cocksfoot grass. Aug.-Sept. 2 to 4 f. ☉. cf. *Intr. W.*
1554. *P. clandestinum*, *Linn.* July-Aug. 2 to 3 f. 4. Moist woods. Ky. *St. Cin. Colby.*
1555. *P. latifolium*, *Linn.* May-July. 1 f. 4. ow. Thickets. *W.*
1556. *P. dichotomum*, *Linn.* Aug. 8 to 16 i. 4. Dry woods, &c. Ky. *St. Mar. O.*
1557. *P. nitidum*, *Lam.* June-July. 18 i. to 2 f. 4. Barrens, &c. Ky. *St.*
1558. *P. agrostoides*, *Muhl.* Aug. 2 to 3 f. 4. Wet meadows. Ky. *St.*
1559. *P. proliferum*, *Lam.* Sept. 2 to 4 f. f. 4. Wet meadows. Ky. *St.*
1560. *P. virgatum*, *Linn.* July-Aug. 3 to 4 f. 4. Ky. *St.*
1561. *P. capillare*, *Linn.* Aug. 1 to 2 f. 4. cf. *W.*  
b. var. *sylvaticum*, *Torr.* Dry woods. *O.*
1562. *P. laxiflorum*, *Lam.* ☉. Fields. Germantown, Ohio. *Frank.*
1563. *Setaria glauca*, *Beauv.* Bottle grass. July-Aug. 18 i. ☉. *Intr. rd. &c. O.*
1564. *S. verticillata*, *Beauv.* Bristle grass. July. 18 i. ☉. Sandy grounds. *Intr. Cin. O. Colby.*
1565. *Piptatherum nigrum*, *Torr.* Black-seeded millet grass. Aug. 2 to 3 f. 4. Rocky hills, Ky. *St.*
1566. *Digitaria sanguinalis*, *Scop.* Crab grass. Aug.-Sept. 1 to 2 f. ☉. cf. &c. *O.*
1567. *D. glabra*, *Roem.* Smooth finger grass. Aug.-Sept. 1 f. ☉. Sandy fields, Cin. *O. Colby.*
1568. *D. filiformis*, *Ell.* Thread-stem finger grass. Aug. 1 to 2 f. ☉. Sandy fields, Ky. *St.*
1569. *D. serotina*, *Michx.* June-Aug. 12 to 18 i. ☉. Wet places. *Muhl.* Canal banks, *O.?*
1570. *Ceresia fluitans*, *Pers.* Floating ceresia. Oct. 1 to 3 f. ☉. ? In river swamps. Ky. *St.*
1571. *Beckmannia crucæformis*, *Juss.* July. *Plt. Jas.*
1572. *Cenchrus tribuloides*, *Linn.* Hedge-hog grass. July-Aug. 18 i. ☉. Sandy soils. Louisville. *M Murt.*
1573. *Paspalum ciliatifolium*, *Michx.* Sept. 18 i. 4. Sandy fields. Ky. *St.*
1574. *P. plicatulum*, *Michx.* Ky. *St.*
1575. *P. læve*, *Michx.* Aug. 1 to 2 f. 4. md. Louisville. *M Murt.*

1576. *Tripsacum dactyloides*, *Linn.* Sesame grass. Aug. 5 to 7 f. 4. md. Louisville. *M. Murt. W. Bk.*

#### DIV. III. AVENACEÆ.

1577. *Stipa juncea*, *Pursh.* Feather grass. Aug. 4. Mo. Ter. *Nutt. N. W. Ter. Houghton.*
1578. *S. parviflora*, *Desf. Nutt.* 1 to 2 f. 4. Plains of Missouri. *Nutt.*
1579. *S. sericea*, *Michx.* Sept. 2 f. 4. Mo. Ter. Plt. *Jas.*
1580. *S. membranacea*, *Pursh.* June-July. 2 to 3 f. 4. Missouri banks. *Bradbury.* Grassy plains, Mo. Ter. *Nutt.* Stony hills, O. *Frank.*
1581. *Aristida pallens*, *Linn.* Mo. Ter. *Nutt. Jas.*
1582. *Calamagrostis mexicana*, *Nutt.* Aug. 3 to 4 f. 4. bg. West to Mich. *Bk.*
1583. *C. confinis*, *Spreng.* Germantown, O. *Frank.*
1584. *Anthoxanthum odoratum*, *Linn.* Sweet-scented vernal grass. June-Aug. 1 f. 4. Moist meadows. Intr. Cin. O. *Frank.*
1585. *Aira flexuosa*, *Linn.* Hair grass. June. 1 to 2 f. 4. sw. W. Bk. Mich. *Houghton.*
1586. *A. capillacea*, *Lam.* 8 i. Slate hills and sandy pastures. *Pursh.* sw. Germantown, O. *Frank.*
1587. *A. mollis*, *Muhl.* Soft hair grass. Ap.-May. 1 to 2 f. Banks of the Miami canal, &c. *Frank. Ky. St.*
1588. *Holcus lanatus*, *Linn.* Soft grass. July. 18 i. 4. Wet meadows. N. W. Ter. *Houghton. W. Bk.*
1589. *Danthonia spicata*, *Beauv.* Wild oats. June-Aug. 1 to 2 f. 4. Woods and fields. *Ky. St. Cin. Colby. W. to Mich. Bk.*
1590. *Arrhenatherum kentuckiensis*, *Torr.* 4. *Ky. St.*

#### DIV. IV. FESTUCACEÆ.

*Poa.* Meadow grass.

1591. *Poa annua*, *Linn.* Ap.-Aug. 6 to 8 i. ○. Fields. *Ky. St. O. Frank. St. L. Bk.*
1592. *P. pungens*, *Torr.* Ap. 18 i. 4. Rocky woods. *Ky. St. O. Frank.*
1593. *P. pratensis*, *Linn.* May-July. 2 to 3 f. 4. Intr. md. *Ky. St. Cin. O. Colby.*
1594. *P. parviflora*, *Pursh.* July. 12 to 18 i. 4. sw. *Ky. St.*
1595. *P. trivialis*, *Linn.* July. 2 to 3 f. 4. Wet md. *Cin. Colby. Ky. St.*
1596. *P. compressa*, *Linn.* Blue grass. June-July. 12 to 18 i. 4. Fields and woods. *Ky. St. Cin. Colby. St. L. Bk.*



1597. *P. serotina*, Ehrh. One of the grasses called *red-top*. June. 2 to 3 f. 4. Wet md. Bk. Woods and fields, Germantown, O. Frank.
1598. *P. nervata*, Willd. June. 3 to 4 f. 4. Wet. O. Ky.
1599. *P. obtusa*, Muhl. Aug. 3 to 4 f. 4. Swamps, &c. Germantown, O. Frank.
1600. *P. canadensis*, Torr. July. 3 to 4 f. 4. Swamps. Cin. Colby.
1601. *P. capillaris*, Linn. July-Aug. 1 f. 0. Sandy fields. Ky.? St.
1602. *P. pectinacea*, Michx. July. 8 to 12 i. 0. Sandy fields. Ky. St.
1603. *P. reptans*, Michx. July-Aug. 6 to 8 i. 0. Sandy banks. rb. W.
- b. var. *cæspitosa*, Tarr. St. L. Bk.
1604. *P. eragrostis*, Linn. July-Aug. 12 to 18 i. 0. Sandy fields, pastures, &c. O. Ky.
1605. *P. airoides*, Nutt. 4 to 5 f. Depressed situations. Mo. Ter. Nutt.
1606. *P. multicaulis*, Raf. Louisville. M. Murt. Ky. St.

*Festuca*. Fescue grass.

1607. *Festuca tenella*, Willd. June. 8 to 12 i. 0. Sandy fields. Ky. St.
1608. *F. elatior*, Linn. June. 3 to 4 f. Wet md. Ky. St.
1609. *F. pratensis*, Huds. June-July. 1 to 2 f. 4. md. Ky. St.
1610. *F. nutans*, Willd. June. 3 f. 4. Woods and hills. W. Bk.
1611. *F. spicata*, Pursh. June. 1 f. Banks of the Missouri. Nutt.
1612. *F. clandestina*, Pursh. 8 i. Cin. O. Colby.
1613. *Dactylis glomerata*, Linn. Orchard grass. June. 2 to 3 f. 4. md, &c. Ky. St. Cin. O.
1614. *Kœleria nitida*, Nutt. 8 i. 0? Plains of the Missouri. Nutt. Jas.
1615. *K. truncata*, Torr. June. 2 f. 4. Dry woods. Ky. St.

*Bromus*. Brome grass.

1616. *Bromus secalinus*, Linn. Chess. June. 2 to 3 f. 0. cf. Intr. O. Ky.
1617. *B. purgans*, Linn. Aug. 2 to 4 f. 4. Wet md. Germantown, and Cin. O. Frank. Dayton, O.
1618. *B. ciliatus*, Linn. June. 3 f. 4. River banks. Cin. O. Colby. Ky. St.
1619. *B. pubescens*, Muhl. June. 4 f. 4. Woods. Ky. St.



1620. *B. mollis*, *Linn.* June. 2 f. ♂. Fields. Ky.? *St.*  
 1621. *B. altissimus*, *Pursh.* June. 7 f. 4. Banks of the Missouri. *Pursh.* Mo. Ter. *Nutt.* Cin. O. *Colby.*  
 1622. *B. arvensis*, *Linn.* June. 2 to 3 f. ☉. cf. *Hook.* Bri. Fl. p. 49. Meadows, Germantown, O. *Frank.* Intr.?  
 1623. *Uniola latifolia*, *Michx.* Aug. 2 to 3 f. 4. Ky. *St.* Cin. O.  
 1624. *U. gracilis*, *Michx.* Aug. 3 to 4 f. 4. Sandy swamps. Ky. *St.*  
 1625. *U. spicata*, *Linn.* Aug.-Sept. 18 i. 4. Salt marshes, Mo. Ter. *Jas.*  
 1626. *Glyceria fluitans*, *Brown.* June-July. 3 to 5 f. 4. Wet grounds. Ky. *St.* Cin. *Colby.* N. W. Ter. *Houghton.*  
 1627. *Melica speciosa*, *Muhl.* Melic grass. June. 3 to 4 f. 4. Ky. *St.* Cin. *Colby.*  
 1628. *M. diffusa*, *Pursh.* June. 4. Ky. *St.*  
 1629. *Tricuspis seslerioides*, *Torr.* Larger red-top. Aug. 4 to 5 f. 4. Sandy fields. dp. Louisville. *M. Murt.* Ky. *St.* Middletown, O.  
 1630. *Sesleria dactyloides*, *Nutt.* Moor grass. May-June. 4 to 5 i. 4. Grassy plains of the Missouri. *Nutt.* Plt. *Jas.*  
 1631. *Diarrhena americana*, *Torr. Beauv.* 3 to 4 f. 4. Banks of the Ohio. *Raf.* Miami country. *Festuca diandra*, *Michx.*

## DIV. V. CHLORIDEÆ.

1632. *Chloris secundus*, *Pursh.* 4. Upper Louisiana. *Bradbury.*  
 1633. *Eleusine indica*, *Lam.* Wire grass. July.-Nov. 1 to 2 f. ☉. cf. Cin. *Colby.* Germantown, O. *Frank.*  
 1634. *Oxydenia attenuata*, *Nutt.* Aug. 2 to 3 f. ☉. River banks. Ky. *St.*  
 1635. *Atheropogon apludoides*, *Muhl.* Aug. 18 i. 4. Rocky hills. W. *Nutt.*  
 1636. *A. oligostachyum*, *Nutt.* 8 to 12 i. 4. Plains of the Missouri. *Nutt.*

## DIV. VI. HORDEACEÆ.

1637. *Hordeum jubatum*, *Linn.* Squirrel-tail grass. June. 2 f. ♂. mh. Mo. Ter. Plt. *Jas.* Calcareous islands of Lake Michigan. *Nutt.*  
 1638. *H. pusillum*, *Nutt.* Dwarf barley grass. 4 to 6 i. Saline plains of the Missouri. *Nutt.* Ky. *St.*  
 1639. *Triticum repens*, *Linn.* Couch grass. Quack. July. 2 f. 4. Fields, W. *Bk.*

1640. *Elymus virginicus*, *Linn.* Lime grass. Wild rye. July-Aug. 3 to 4 f. 4. River banks, &c. W.
1641. *E. canadensis*, *Linn.* Canadian lime grass. Aug. 3 to 4 f. 4. River banks, &c. Mar. O.  
*b. var. glaucifolius*, *Torr.* July. St. L. Bk.
1642. *E. villosus*, *Muhl.* July. 2 to 3 f. 4. Hills. German-town. O. *Frank.*
1643. *E. hystrix*, *Linn.* July. 3 f. 4. rs. Cin. *Colby.*
1644. *E. striatus*, *Willd.* June. 8 i. 4. sw. Bk. July. 3 to 4 f. 4. *Eat.* Cin. *Colby.* S. Croix river, N. W. Ter. *Hough.*
1645. *Spartina cynosuroides*, *Willd.* Marsh grass. Aug. 4 to 10 f. 4. wp. md. Ky. St. Plt. *Jas.* Wet prairie, Hamilton, O.
1646. *S. glabra*, *Muhl.* Smooth cord grass. Aug.-Sept. 3 to 5 f. 4. mh. W. Bk.
1647. *Lepturus paniculatus*, *Nutt.* June. 10 i. ○. Saline plains, Mo. Ter. *Nutt.* Plt. *Jas.*
1648. *Egilops hystrix*, *Nutt.* 4 to 6 i. 4. Arid plains of the Missouri. *Nutt.* Plt. *Jas.*

## DIV. VII. SACCHARINEÆ.

*Andropogon.* Beard grass.

1649. *Andropogon scoparius*, *Michx.* Aug. 3 to 4 f. 4. dp. O. Ky.
1650. *A. virginicus*, *Linn.* Sept. 3 f. 4. Swamps. Ky. St.
1651. *A. nutans*, *Linn.* Aug.-Oct. 4 to 8 f. 4. dp. wp. O.
1652. *A. furcatus*, *Muhl.* Aug.-Sept. 2 to 3 f. 4. Rocky banks of streams. Ky. St. N. W. Ter. *Hough.*
1653. *A. ciliatus*, *Ell.* Sept. 3 f. 4. Pine barrens. *Ell.* Ky. St.

## DIV. VIII. ORYZEÆ.

1654. *Zizania aquatica*, *Lamb.* Wild rice. Water oats. Aug. 4 to 6 f. 4. In Water. Abundant in the Great Lakes. *Schoolcraft.* Dayton, O. *Dr. Locke.* The seed is an article of diet among the Western Indians.
1655. *Z. miliacea*, *Michx.* Aug. 6 to 10 f. 4. In water. Near Dayton, O., on Hoffman's prairie.
1656. *Oryzopsis asperifolia*, *Michx.* Mountain rice. April-May. 18 i. 4. Ditches, &c. Miami country. *Frank.*
1657. *Leersia virginica*, *Willd.* Rice grass. Aug. 2 to 4 f. 4. Wet woods. O.
1658. *L. oryzoides*, *Swartz.* White grass. Aug.-Sept. 3 to 5 f. 4. mh. wp. &c. Ky. St. St. L. Bk. Miami country.
1659. *L. lenticularis*, *Michx.* Catch-fly grass. July. 2 to 4 f. 4. Wet places, Germantown and Cin. *Frank.*

1660. *Zea mays*, Linn. Indian corn.  
*b. var. præcox*, Nutt. Early Mandan corn. Cultivated among the Missouri Indians. Nutt.

## DIV. IX. BAMBUSINÆ.

1661. *Arundinaria macrosperma*, Michx. Cane. April. 3 to 15 f.  
 ♀. Louisville. M'Murt. Ky. St. Ark. Jas. var. gigantea, 30 to 40 f.

## CCLXII. CYPERACEÆ.—THE SEDGE TRIBE.

§ 1. *Cyperaceæ veræ*.

1662. *Cyperus inflexus*, Muhl. Aug.—Sept. 2 to 3 i. ♂.  
 Banks of streams, margins of ponds. Ky. St. St. L. Bk.  
 1663. *C. flavescens*, Linn. Aug.—Sept. 8 to 12 i. ♀. Wet soils. Ky. St. O.  
 1664. *C. nuttallii*, Torr. Aug.—Sept. 5 to 12 i. ♀. Salt marshes. Bk. Ky. St.  
 1665. *C. dentatus*, Torr. Sept. 10 to 12 i. ♀. mh. Louisville, M'Murt.  
 1666. *C. strigosus*, Linn. *Cyperus*. Aug.—Sept. 2 to 3 f. ♀. Low wet grounds. mh. W.  
 1667. *C. phymatodes*, Muhl. Aug. 12 to 18 i. ♀. Moist grounds. Ky. St. Central O.  
 1668. *C. mariscoides*, Ell. Aug. 8 to 10 i. ♀. Rocky grounds. Cin. Colby. W. Bk.  
 1669. *C. flavicomis*, Michx. July. ♀. Boggy woods. Bk. Wet sandy places, Miami country. Frank.  
 1670. *C. poæformis*, Pursh. July. 8 i. Banks of rivulets, Germantown, O. Frank.  
 1671. *C. alterniflorus*, Schw. 1 f. ♀. River St. Clair. Mich. Houghton.  
 1672. *Dulichium spathaceum*, Pers. Galingale. Aug. 18 i. ♀. mh. &c. O.  
 1673. *Kyllingia pumila*, Michx. July. 3 to 6 i. ♀. Damp gravelly situations. Ky. St. Miami country.

§ 2. *Scirpæ*.*Scirpus*. Club-rush.

1674. *Scirpus palustris*, Linn. June. 1 to 2 f. ♀. mh. &c. Germantown, O. Frank. Louisville. M'Murt.  
 1675. *S. capitatus*, Linn. July. 8 to 14 i. ♀. bg. md. Ky. St. Cin. Colby. Central O.  
 1676. *S. acicularis*, Linn. June—July. 3 to 6 i. ♀. Muddy margins of ponds. W.  
 1677. *S. intermedius*, Muhl. Sept. 3 to 4 i. ♀. mh. Cin. O. Colby.

1678. *S. tenuis*, Willd. June-July. 8 to 12 i. 4. mh. Swamps. Ky. St. O.
1679. *S. lacustris*, Linn. Bull-rush. June. 4 to 8 f. 4. pl. mh. O. Ky.
1680. *S. brunneus*, Muhl. Aug.-Sept. 2 to 3 f. 4. Margins of ponds. O. Ky.
1681. *S. atrovirens*, Muhl. June. 2 f. 4. Wet md. Ky. St.
1682. *S. capillaris*, Linn. Aug. 8 i. ☉. Wet grounds.—Louisville. M'Murt. O.
1683. *S. autumnalis*, Linn. July-Oct. 8 to 12 i. 4. Low woods. Ky. St.
1684. *S. simplex*, Ell. June. 8 to 13 i. 4. bg. &c. Banks of creeks. Germ. O. Frank.
1685. *S. americanus*, Pers. Aug. 3 to 5 f. Eat. 2 to 3 f. Ell. 4. Damp soils. Ky. St.
1686. *S. maritimus*, Linn. July-Aug. 3 to 4 f. 4. Salt marshes, usually. Mo. Ter. Jas.
1687. *Tricophorum cyperinum*, Pers. Red cotton grass. Aug. 3 to 5 f. 4. Wet grounds. Ky. St.
1688. *T. lineatum*, Pers. Aug. 2 to 3 f. 4. Swamps. Borders of ponds, Missouri. Bk. Cin. Colby. Mo. Ter. Jas.
1689. *Eriophorum polystachyon*, Linn. Cotton grass. July. 1 to 2 f. 4. Swamps. Louisville. M'Murt.
1690. *Mariscus ovalaris*, Vahl. July-Aug. 6 to 18 i. 4. bg. and low grounds. Louisville. M'Murt.
1691. *Fuiera squarrosa*, Michx. Umbrella grass. Aug.-Sept. 1 to 2 f. 4. bg. Ark. Jas.
1692. *Rhynchospora alba*, Vahl. Swamp rush. July-Sept. 12 to 18 i. 4. Swamps and bogs. Cin. O. Colby.
1693. *R. glomerata*, Vahl. July-Aug. 12 to 18 i. 4. bg. mh. O. Ky.
1694. *R. laxa*, Vahl. July. 3 to 6 f. 4. Swamps. Ky. St.
- § 3. *Caricina*.
- Carex*. Sedge. Sedge grass. *Carex*.
1695. *Carex wildenovii*, Schk. May-June. 8 to 12 i. 4. Rocky woods. Ky. St. Hills, Cin. O.
1696. *C. squarrosa*, Linn. May-June. 2 f. 4. bg. W. to Miss. Bk.
1697. *C. muhlenbergii*, Schk. May. 1 to 2 f. 4. Rocky woods. ow. Cin. O. Ky. St.
1698. *C. multiflora*, Muhl. May. 2 f. 4. Wet. md. Ky. St.
1799. *C. setacea*, Dew. June-July. 18 to 30 i. 4. Wet. md. Ky. ?St.
1700. *C. arida*, Torr. June. 2 to 3 f. 4. md. Ohio and farther west. Bk.



1701. *C. stellulata*, *Good.* May. 8 to 18 i. 4. Wet grounds. Ky.? *St.*
1702. *C. scirpoides*, *Schk.* May. 6 to 12 i. 4. Wet md. Mich. Ter. *Houghton.*
1703. *C. hirsuta*, *Willd.* May. 12 to 18 i. 4. md. rs. West to Mich. *Bk. Ky. St.*
1704. *C. buxbaumii*, *Wahl.* June. 2 f. 4. Swamps. West to Michigan. *Bk.*
1705. *C. digitalis*, *Muhl.* May. 18 i. 4. Wet md. West to Mich. *Bk. Ky. St.*
1706. *C. aurea*, *Nutt.* May-June. 4 to 10 i. 4. Wet rocks. West to Mich. *Bk. Mich. Nutt.*
1707. *C. varia*, *Muhl.* April. 8 to 12 i. 4. Dry woods. O. Ky.
1708. *C. pubescens*, *Muhl.* May. 12 to 18 i. 4. Woods. Ky.? *St.*
1709. *C. tentaculata*, *Muhl.* May-June. 12 to 18 i. 4. Wet md. Central O.
1710. *C. lupulina*, *Muhl.* June. 2 to 3 f. 4. Swamps. Ky. *St.*  
*b. var. pedunculata*, *Gray.* July. Shores of Lake Erie. *Gray.*
1711. *C. folliculata*, *Linn.* June. 18 i. 4. Swamps. Ky. *St.* Miami country.
1712. *C. plantaginea*, *Lam.* Ap.-May. 8 to 12 i. 4. Beech woods. O.
1713. *C. anceps*, *Muhl.* Ap.-May. 12 to 14 i. Dry woods. Ky. *St. O.*
1714. *C. alba*, *Hænke.* June. 4 to 10 i. Limestone hills. Ky. *St.*
1715. *C. granularis*, *Muhl.* May. 1 f. Wet grounds. Ky.? *St.*
1716. *C. hystericina*, *Willd.* May. 18 i. Wet grounds. Ky. *St.*
1717. *C. limosa*, *Linn.* June. 9 to 24 i. Swamps. Sault de Marie, Mich. Ter. *Houghton.*
1718. *C. acuta*, *Linn.* May. 2 f. Wet grounds. Ky. *St.*
1719. *C. filiformis*, *Linn.* 2 to 3 f. bg. West to Mich. *Bk.*
1720. *C. vesicaria*, *Linn.* May. 2 f. md. West to Mich. *Bk.*
1721. *C. retrorsa*, *Torr.* May. 2 f. About ponds. Ky. *St.*
1722. *C. pellita*, *Muhl.* May. 24 to 30 i. Wet grounds. Ky.? *St.*
1723. *C. longirostris*, *Torr.* 2 f. Wet md. West to Mich.—*Gray.*
1724. *C. lacustris*, *Willd.* June. 3 to 5 f. Swamps, &c. Near Cin. O.?



## CELLULARES.

## TRIBE I. FILICOIDEÆ. Fern-like plants.

## CCLXIII. EQUISETACEÆ.—THE HORSE-TAIL TRIBE.

The equisetums are slightly astringent and stimulating, diuretic and emenagogue. Lind. Nat. Syst. 308.

1725. *Equisetum hyemale*, Linn. Scouring rush. June–July. 1 to 2 f. 4. ow. mh. rb. W. The infusion is said to be an efficacious remedy for strangury.
1726. *E. palustre*, Linn. Marsh horse-tail. May–June. 12 to 18 i. 4. mh. Swamps. Near Lake Sup. Houghton. Virginia. Bk.
1727. *E. sylvaticum*, Linn. Wood horse-tail. May. 12 to 18 i. 4. Low woods. Central O.
1728. *E. limosum*, Linn. Swamp horse-tail. Naked horse-tail. July. 2 to 3 f. 4. Borders of swamps. mh. Lake Sup. Houghton. Hoffman's prairie, Dayton, O.
1729. *E. fluviatile*, Linn. Great water horse-tail. Fertile stems 1 f. Sterile stems 2 to 5 f. 4. Shores of Lake Sup. Buffalo. Torr.
1730. *E. arvense*, Linn. Corn horse-tail. April–May. Fertile stems 6 to 8 i. Sterile stems 12 to 18 i. Fields, &c. W.
1731. *E. variegatum*, Smith. Variegated horse-tail. July. 3 to 6 i. 4. Woods on high grounds. Near Lake Mich. Houghton.

## CCLXIV. FILICES.—THE FERN TRIBE.

The leaves of ferns generally contain a thick astringent mucilage, on which account they are considered pectoral and lenitive. The stem is bitter and astringent, anthelmintic, emenagogue and purgative. Lind. Nat. Syst. 311.

*Polypodium*. Polypod.

1732. *Polypodium vulgare*, Linn. July. 6 to 10 i. 4. Rocky woods. Ky. St. Mar. O. W. Bk.
1733. *P. incanum*, Pursh. July–Aug. 4. Frond 3 to 6 i. Parasitic on the inclined moss-clad trunks of living trees. Ky. St. On rocks and trunks of old trees. Ky. Tenn. Pursh. Fl. ii. 659. I once met with this fern in a damp forest near Monroe, O., where it had crept to the height of 10 or 12 feet upon a large sycamore.
1734. *P. hexagonopterum*, Michx. July. 12 to 18 i. 4. sw. O. Ky.

1735. *P. phlegopteris*, Linn. Bk. *P. connectile*, Willd. Pale mountain polypod. July-Aug. 8 to 12 i. 4. sw. O. Ky.

1736. *Onoclea sensibilis*, Linn. Sensitive polypod. July. 12 to 18 i. 4. wp. Moist woods. O. Ky.

*Aspidium*. Shield fern.

1737. *Aspidium acrostichoides*, Willd. June-Aug. 12 to 18 i. 4. rs. sw. W. Used by some as a vermifuge.

1738. *A. thelypteris*, Willd. Marsh shield-fern. July. 12 to 18 i. mh. wp. &c. O.

1739. *A. cristatum*, Willd. Crested shield-fern. July. 12 to 18 i. Marshy woods. Central O.

1740. *A. lancastriense*, Spreng. July. 18 to 24 i. 4. Woods. Central O.?

1741. *A. goldianum*, Hook. Goldie's shield-fern. July. 18 to 36 i. 4. Woods. Central O.

1742. *A. fragile*, Willd. A tenue, Pursh. Slender shield-fern. June-July. 6 to 14 i. 4. sw. rs. &c. W.

1743. *A. marginale*, Willd. Marginal shield-fern. July-Sept. 1 to 2 f. 4. Rocky woods. Ky. St. Shady argillaceous ravines, Wor. O.

1744. *A. spinulosum*, Willd. Prickly toothed shield-fern. July. 4. sw. (12 to 18 i. Central O.)?

1745. *A. bulbiferum*, Willd. July. 12 to 18 i. 4. Wet rocks. Ky. St. Limestone ledges, Central O.

1746. *A. filix-mas*, Willd. Male fern. July. 2 to 3 f. Shady banks. Hook. Ky. St. Vermifuge, tonic, astringent. Wood & Bache.

1747. *A. asplenoides*, Willd. July. 1 to 2 f. 4. sw. Mar. O.

*Asplenium*. Spleenwort.

1748. *Asplenium rhizophyllum*, Willd. Walking leaf. July. 4 to 10 i. 4. Rocks. O. Ky.

1749. *A. angustifolium*, Michx. July. 12 to 18 i. 4. Moist woods. sw. O. Ky.

1750. *A. ebeneum*, Willd. Ebony spleenwort. July. 6 to 10 i. 4. Argillaceous hill-sides. rs. O. Ky.

1751. *A. trichomanes*, Linn. July. 4 to 8 i. 4. Shady rocks. Ky. St. Near Cin. O. Resembles the preceding closely.

1752. *A. thelypteroides*, Michx. July. 1 to 2 f. 4. Shady banks of streams. O. Ky.

1753. *A. ruta-muraria*, Linn. Rock-rue. July. 2 to 4 i. 4. Rocks. Ky. St. Near Cin. O.

1754. *A. montanum*, Willd. Mountain spleenwort. July. 4 to 8 i. 4. Mountain rocks. Ky. St.

1755. *Scolopendrium officinarum*, Willd. Hart's tongue. July. 8 to 15 i. 4. sw. rs. Louisville. *MMurt.* (?)
1656. *Pteris aquilina*, Linn. Brake. July. 2 to 6 f. 4. Dry woods. ow. O. Ky. The stem is anthelmintic, emenagogue, and purgative.. Lind. 311.
1757. *P. atropurpurea*, Linn. Rock brake. July. 6 to 10 i. 4. Rocks. O. Ky.
1758. *P. pedata*, Willd. July. 6 i. 4. Louisville. *MMurt.*
1759. *Adiantum pedatum*, Linn. Maiden-hair. July. 1 to 2 f. 4. sw. W. Pectoral, demulcent. Hoop. Dic. Raf. Med. Fl.
1760. *Cheilanthes vestita*, Willd. Lip-fern. July. 6 to 8 i. 4. Rocks. West to Rocky Mts. *Bk.*
1761. *C. dealbata*, Pursh. July. 2 to 3 i. 4. Crevices of rocks on the banks of the Missouri, 50 miles above its confluence. Rare. *Nutt.*
1762. *Hypopeltis obtusa*, Willd. July. 4 to 5 i. 4. Rocks. Ky. *St.*

*Osmunda.* Flowering fern.

1763. *Osmunda interrupta*, Michx. June. 1 to 2 f. 4. Low grounds. *Bk.* Louisville. *MMurt.* Cin. O.
1764. *O. cinnamomea*, Linn. Aug. 2 to 5 f. 4. Low grounds. Swamps. sw. Central O.
1765. *O. regalis*, Linn. July. 3 to 5 f. 4. Wet woods, swamps. O. Ky. This fern has been given in 3 drachm doses for the rickets. Lind. 311.
1766. *Ophioglossum vulgatum*, Linn. Adder's tongue. June. 6 to 8 i. 4. Low woods. Ky. *St.* Fig. Bart. Fl. N. A. ii. 55.
1767. *O. bulbosum*, Michx. May. 6 i. 4. Low grounds. Ky. *St.* Fig. Bart. Fl. ii. 59.

*Botrychium.* Grape fern.

1768. *Botrychium fumarioides*, Bk. Willd. B. obliquum, Muhl. June. 9 to 12 i. 4. sw. O. Ky.
1769. *B. virginicum*, Swartz. Bk. June-July. 12 to 20 i. 4. sw. O. Ky.

CCLXV. LYCOPODIACEÆ.—THE CLUB-MOSS TRIBE.

*Lycopodium.* Club-moss. Ground-pine.

1770. *Lycopodium carolinianum*, Linn. July. Creeping. Peduncles 3 to 4 i. 4. Low grounds. Northern O.?
1771. *L. clavatum*, Linn. July. Trailing. Branches 4 to 6 i. high. 4. Pine woods. West to Mich. *Bk.* This plant

excites vomiting. Woollens when boiled with this, or with other species, acquire the property of becoming blue, when passed through a bath of Brazil wood. *M. Vastring.* Lind. 314.

1772. *L. complanatum*, Linn. July. Trailing 2 to 10 f. 4. Woods. Ky. St.  
 1773. *L. dendroideum*, Michx. July. Erect, 6 to 8 i. sw. Ky. St.  
 1774. *L. annotinum*, Linn. July. Creeping. (Branches 6 to 8 i. high. Bk.) Branches 3 to 5 i. high. 4. Slaty ravines. rs. Central O.

CCLXVI. *MARSILEACEÆ*.—THE PEPPERWORT TRIBE.

1775. *Azolla caroliniana*, Willd. Floating on water. Leaves radical. ☉. Louisville. *M. Murt.* Western states. *Nutt.*

TRIBE II. *MUSCOIDÆE*. Moss-like plants.

CCLXVII. *MUSCI*.—THE MOSS TRIBE.

In the fall and winter of 1832, I collected several species of moss, mostly from the damp slaty ravines near Worthington, Ohio. They were determined by Dr. Torrey of New York, (with the exception of *Fontinalis*,) and though quite limited in number, they are here subjoined.

1776. *Bryum punctatum*, Schreb. Erect. In damp shady places. Central O.  
 1777. *Dicranum glaucum*, Hedwig. Nov.—Dec.  $\frac{1}{2}$  to 1 i. Cæspitose. On the earth, logs, &c. Damp woods, ravines, &c. Central O.  
 1778. *D. scoparium*, Hedwig. Autumn and winter. 1 to 2 i. On rocks, the earth. &c. sw. O.  
 1779. *Climacium dendroides*, Mohr. 2 to 3 i. Damp shady places. O.  
 1780. *Fontinalis capillacea*, Dicks. Water moss. (Adhering to stones in running waters. 3 to 4 i. Mar. O. Miami country.)?  
 1781. *F. antipyretica*, Spreng. Syst. iv. 187. Pools near Dayton, O.?  
 1782. *Neckera cladorhizans*, Hedwig. Autumn. Creeping, on the trunks of trees. O.  
 1783. *Polytrichum juniperinum*, Hedwig. Hair-cap moss. May. 2 i. 4. Dry woods. O.  
 1784. *P. undulatum*, Hedwig. 1 to 2 i. Central O.  
 1785. *Arrhenopterum heterostichum*, Hedwig. Autumn. Damp situations. Central O.



## CCLXVIII. HEPATICEÆ.—THE LIVER-WORT TRIBE.

1786. *Jungermannia multifida*, Linn. 1 to 2 i. Swampy woods, Monroe, O.
1787. *Marchantia polymorpha*, Linn. Brook liver-wort. July. g-y. 2i. 4. Wet shady rocks, in wells, &c. O. Tonic, demulcent, nutrient. *De Cand.* Lind. 322.
1788. *M. hemispherica*, Linn. 1½ i. Rocky grounds. O. (?) Valuable diuretic, and local diaphoretic. *Eberle.*
1789. *Riccia fluitans*, Linn. Fork-stems. June. Floating, 2 to 3 i. Plenty from Lake Superior to Boston, in water among lemnæ. *Eat.*

## CCLXIX. CHARACEÆ.—THE CHARA TRIBE.

This order consists of a few obscure aquatic plants, found generally in stagnant pools. In Sprengel's *Systema Vegetabilium*, vol. iv. p. 345, (Ed. of 1827,) there are sixteen species of *Chara* enumerated, most of which occur in the temperate parts of the globe. I have not at present the means of comparing the plants which are described below, with foreign specimens, nor even with satisfactory descriptions. The specific names are therefore given more with a reference to present convenience, than with the expectation of their being ultimately retained.

1790. *Chara vulgaris*, Willd. Feather-beds. *Branchlets* or *leaves* 7 to 9 in a whorl, bearing verticilli of still smaller branchlets. *Stem* 12 to 18 inches high, branching. Odour fetid, colour dirty green above, orange or yellow below. This species forms dense beds in stagnant pools and ditches. Like the other species it is encrusted with carbonate of lime. July-Aug. ☉. O.
1791. *C. flexilis*, Willd. *Stems* seldom cæspitose, 18 to 24 inches high, moderately branching, smooth, semipellucid, effervesces slightly in muriatic acid; colour nearly brown; *branchlets* or *leaves* 4 to 7 in a whorl, from ½ to 2 inches in length, often branching; *internodes* 2 to 4 inches. July-Aug. ☉. Grows in clear still water, 2 miles south of Dayton, and 7 miles north of Cincinnati.
1792. *C. squamosa*, Desfontaines. (?) *foliosa*, Willd. (?) *Stem* solitary, calcareous and very brittle, sending off at different heights 2 or 3 branches at an angle near 35°; scabrous, striate, subsulcate, the younger portions armed with numerous whorls of minute foliaceous scales. *Branchlets* generally 13 in a whorl, from one half to three fourths of an inch long, involucred at their origin by a dense whorl of subulate scales. *Theca* 2, 3 or



4, on the inner side and lower half of each branchlet. On each branchlet there are from 4 to 7 whorls of nearly obsolete scales. Aug. 8 to 10 i. ☉. In shallow, slow running water. Old River, Hamilton, O. Oolentangy River, Worthington, O.

1793. *C. humilis, mihi.* Stem calcareous, solitary and branching, scabrous, (not sulcate,) 2 to 3 inches high.—Branchlets 8 to 10 in a whorl, without an involucre, generally equalling the internodes which do not exceed three-fourths of an inch in length. Towards the summit of the stem, each branchlet bears 1 or 2 thecæ. Colour deep green. Aug. ☉. Growing in the shallow water of Old River, with the last, which it resembles.

1794. *C. sabulosa, mihi.* Stone-wort. Stem with a few erect branches, subsulcate, papillose; branchlets generally 10, sometimes 8 in a whorl, without an involucre, near half an inch long, each with 2 to 4 verticilli of scales, in the axils of which, on the inner side of the branchlet, are contained the thecæ. Internodes near an inch long. Aug. ☉. 18 inches high. Colour light pea green. Four or five plants generally grow in company in clear pools where the water is two or three feet deep. Dayton, O. The calcareous incrustation is unusually thick, and the stems remarkably brittle.

b. var. *spiralis, mihi.* Stem spirally sulcate; compared with the last, the branches are more divaricate, and the internodes and branchlets twice as long in proportion to the size of the stem. Pools near Dayton.

### TRIBE III. APIHYLLÆ. Leafless flowerless plants.

#### CCLXX. LICHENES.—THE LICHEN TRIBE.

1795. *Cenomyce pyxidata.* Autumn and winter. Cinereous g.  $\frac{1}{2}$  to 1 i. On the earth. Wor. O. (The names accord with the Synopsis Methodica Lichenum of Acharius.)

1796. *C. bacillaris.* Nov. r.  $\frac{1}{2}$  i. On the earth. Central O.

1797. *C. coccifera.* Autumn. r.  $\frac{1}{2}$  i. Earth. O.

1798. *C. rangiferina.* Rein-deer moss. March. Lichen cinereous. 2 to 4 i. Shady, rocky ravines. Wor. O. Earth. In colder regions this lichen grows much more luxuriantly. The rein-deer subsists upon it during the Greenland winter.

1799. *Peltidea canina.* In fruit at all seasons. Lichen bluish cinereous, or greyish green. 1 to 2 i. On the earth, among mosses, in damp rocky situations. O.

Qualities like the Iceland moss, to which it is pretty closely allied.

1800. *Sticta pulmonacea*. Lungwort. Yellowish cinereous. 1 to 2 i. On the bark of trees. W. Tonic, demulcent, nutrient, like the Iceland moss. (*Cetraria islandica*. Lind. Nat. Syst. 329.)
1801. *Usnea florida*. Greenish grey. 2 to 3 i. Winter. On the branches of trees. W.
1802. *U. strigosa*. Dirty cinereous. 2 to 3 i. On the trunks and branches of dead trees. Dayton, O.

#### CCLXXI. FUNGI.—THE MUSHROOM TRIBE.

A most extensive natural order, embracing an almost indefinite number of species, that hold their rank in the lowest grades of the vegetable kingdom. They occur plentifully in the Western States; but (were it possible to do it) it would not comport with the design and limits of this publication to give a synopsis of them.

#### CCLXXII. ALGÆ.—THE SEA-WEED TRIBE.

This order embraces those obscure productions of the aqueous element, which are known under the names of *sea-weed*, *frog-spittle*, *river-hair*, and *green scum*. Our fresh water algæ have received very little attention, though they are met with in every fountain and stagnant pool. They make the most delicate and beautiful specimens, when properly preserved. In fitting them for the herbarium, the following method may be pursued.

Cut a sheet of writing paper into 8, 16 or 32 equal pieces, according to the proposed size of the specimens. Wash the algæ by gently moving or shaking them in water;—detach enough for a specimen, carry a piece of paper underneath, and raise it slowly from the water. By a short exposure to the air or to sunshine, the algæ will become so dry as to be in no danger of adhering to the leaves of a port-folio. They may then be pressed and thoroughly dried, between folds of bibulous paper, like other plants. (See West. Jour. Med. Phys. Sci. viii. 29.) If these manipulations are skilfully accomplished, the minutest filaments are elegantly displayed upon the paper, and remain thereunto permanently attached. The green scum that is often seen on stagnant waters, may be fished up at once by paper without previous washing. In my botanical rambles through the Miami country, last season, I collected and preserved in this manner near a dozen submersed, and two or three floating species.

## REFERENCE TO AUTHORITIES.

WISHING to present this synopsis in a small compass, I remarked in the preface, that the authority for specific names, when not quoted, might be found in Eaton's Manual of Botany. After the first two sheets were printed, I came to the determination of making the usual references to authors. The previous omissions are here supplied, excepting the references to Linnæus. The figures refer to the species.

Species number 1, 2, and 3, Willd. 9, Michx. 16, 17, 18, De Cand. 20, 21, 24, Michx. 25, Willd. 26, Nutt. 27, Walt. 29, Nutt. 30, Big. 33, Pursh. 35, 37, Willd. 38, Walt. 40, Michx. 42, Nutt. 45, De Cand. 46, Rose. 49, 52, 53, De Cand. 57, Muhl. 58, Lam. 59, Willd. 60, Pursh. 61, Michx. 64, Brown. 67, Raf. 68, Willd. 70, Salis. 73, 74, Michx. 75, Willd. 76, Nutt. 79, Eat. 80, Big. 81, L'Herit. 82, Willd. 83, Michx. 84, Nutt. 86, Willd. 87, Ait. 90, Willd. 91, Michx. 92, Muhl. 94, Bart. 100, Pers. 101, Hook. 103, 104, 105, 106, Willd. 107, 108, 109, Michx. 110, Willd. 111, 112, 113, Nutt. 114, Walt. 115, 120, Michx. 123, Nutt. 124, Smith. 125, Nutt. 131, Willd. 132, Ait. 134, Pursh. 135, De Cand. 137, Willd. 138, 139, 140, Michx. 141, 142, 149, Willd. 150, Pursh. 154, Michx. 155, Nutt. 157, Willd. 159, Michx. 161, 162, 163, Vent. 164, 165, 166, Willd. 167, Lam. 169, 170, Willd. 171, Pursh. 175, Michx. 176, 177, Vent. 178, 179, Michx. 180, Willd. 184, Michx. 186, 187, Pursh. 188, Raf. 190, Willd. 191, Lam. 193, Muhl. 194, 195, Willd. 196, Nutt. 197, 199, Michx. 200, Willd. 201, Michx. 203, Nutt. 204, Pursh. 206, Lam. 207, Muhl. 208, Willd. 209, Muhl. 211, Nutt. 214, Ait. 215, Roth. 216, Willd. 217, 218, Nutt. 219, Pursh. 220, Nutt. 221, Pursh. 222, Raf. 223, Willd. 224, Nutt. 225, Pursh. 227, Walt. 228, 230, Willd. 235, 236, 238, Nutt. 239, Pursh. 240, Willd. 242, 244, Michx. 245, Pursh. 247, Nutt. 248, L'Herit. 251, Walt. 253, Michx. 255, Willd. 258, Michx. 265, Willd. 267, Michx. 268, Lam. 269, Michx. 271, Ait. 273, 275, Willd. 276, Pursh. 278, Michx. 281, Ait. 283, Nutt. 284, Michx. 286, Brown. 287, 289, Willd. 291, Ehrh. 292, Ait. 295, Pallas. 296, Willd. 298, Mœench. 299, Bart. 301, Pers. 304, Nutt. 306, Willd. 307, Walt. 308, Ait. 309, 310, Willd. 311, 312, Michx. 313, Willd. 316, Ait. 318, Pursh. 319, Marsh. 320, Michx. 321, Willd. 322, Michx. 324, Muhl. 325, Nutt. 328, 229, Pursh. 330, Nutt. 331, Pursh. 332, Nutt. 333, Michx. 334, Torr. 336, Willd. 337, Muhl. 340, Michx. 341, Willd. 342, Michx. 343, 344, Pursh. 345, Michx. 346, Muhl. 349, Nutt. 350, Michx. 351, Willd. 352, Ell. 353, Michx. 357, Willd. 358, Nutt. 360, Michx. 361, Willd. 362, Pursh. 363, Willd. 365, Michx. 366, Willd. 368, 371, 372, Nutt. 374, 375, Willd. 376, Torr. 377, Nutt. 378, Pursh. 379, Torr. 380, Willd. 381, Michx. 382, Pursh. 383, Nutt. 385, Pursh. 386, 387, Nutt. 388, Pursh. 390, 391, Nutt. 392, Michx. 396, Ell. 397, Eat. 398, Willd. 399, Mœench. 400, Walt. 401, Ell. 402, Pers. 403, Nutt. 405, 406, Pursh. 407, Willd. 410, Walt. 413, 414, De Cand. 419, Willd. 420, Muhl. 421, 432, 434, Willd. 436, 437, 438, Michx. 439, 440, Willd. 441, Pursh. 442, Walt. 443, Nutt. 444, Willd. 445, Michx. 446, Ait. 447, Willd. 448, 449, 450, Michx. 452, Willd. 454, Bart. 456, Michx. 457, Willd. 458, Walt. 459, Michx. 461, Willd. 462, Wang. 463, Michx. 466, Walt. 467, Ait. 469, 472, Michx. 473, Willd. 474, Ait. 475, 478, 479, Willd. 481, Wangh. 482, 483, Pursh. 484, Muhl. 485, Willd. 486, Muhl. 487, Willd. 489, Michx. 491, Willd. 492, Ait. 493, 494, Michx. 498, Willd. 499, Ait. 502, 503, 504, 505, 506, 507, Nutt. 508, Willd. 509, Pursh. 510, 512, Willd. 513, Jacq. 515, Michx. 516, Pursh. 517, Michx. 519, Willd. 521, Michx. 522, Nutt. 523, 527, Michx. 528, 529, Willd. 530, Juss. 531, Willd. 532, Nutt. 523, Willd. 534, 535, 537, Pursh.

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Lilium	1502	Nelumbium	90	Pisum	412
Lindernia	1201	Nemophila	1368	Planera	442
Linnæa	1060	Nepeta	1317	Plantago	776
Linum	620	Nicandra	1239	Platanthera	1427
Liparis	1428	Nicotiana	1240	Poa	1591
Liriodendron	143	Nuphar	88	Podophyllum	93
Lithospermum	1343	Nuttallia	155	Podostemum	730
Lobelia	758	Nymphæa	87	Podostigma	1097
Lonicera	1057	Nyssa	251	Pogonia	1415
Ludwigia	226	Obolaria	1120	Polanisia	133
Lupinus	404	Œnothera	212	Polemonium	1135
Luzula	1446	Onoclea	1736	Polycnenum	691
Lycopodium	1770	Onosmodium	1349	Polygala	576
Lycopsis	1352	Ophioglossum	1766	Polygonum	693
Lycopus	1281	Orchis	1421	Polymnia	1004
Lysimachia	1162	Origanum	1288	Polypodium	1732
Lythrum	238	Orobanche	1178	Polypogon	1543
Maclura	443	Orobis	383	Polytrichum	1783
Macrotys	79	Orontium	1519	Pontederia	1458
Magnolia	136	Orthocarpus	1226	Populus	489
Malva	160	Oryzopsis	1656	Portulacca	655
Marchantia	1787	Osmunda	1763	Potamogeton	1522
Mariscus	1690	Ostrya	474	Potentilla	257
Marrubium	1323	Oxalis	569	Prenanthes	793
Marshallia	982	Oxycoccus	757	Primula	1157
Martynia	1255	Oxydenia	1634	Prinos	734
Meconopsis	83	Oxytropis	385	Prunella	1329
Medeola	1488	Panax	4	Prunus	315
Medicago	326	Pachysandra	527	Psoralea	327
Melampyrum	1225	Pancratium	1403	Ptelea	566
Melanthium	1447	Panicum	1553	Pteris	1756
Melissa	1324	Parietaria	433	Pulmonaria	1360
Melica	1627	Parnassia	193	Pycnanthemum	1282
Menispermum	148	Parthenium	1024	Pyrrola	758
Mentha	1273	Paspalum	1573	Pyrus	314
Mentzelia	236	Passiflora	609	Quercus	445
Menyanthes	1119	Pastinaca	28	Queria	663
Microstylis	1430	Pedicularis	1222	Ranunculus	54
Mikania	938	Peltidea	1797	Rhamnus	533
Mimulus	1196	Penthorum	662	Rhexia	243
Mitchella	1056	Pentstemon	1204	Rhododendron	746

<i>Rhus</i>	559	<i>Solea</i>	608	<i>Triglochin</i>	1531
<i>Rhynchospora</i>	1692	<i>Solidago</i>	904	<i>Trigonella</i>	388
<i>Ribes</i>	197	<i>Sonchus</i>	819	<i>Trillium</i>	1492
<i>Riccia</i>	1789	<i>Sophora</i>	235	<i>Triosteum</i>	1061
<i>Robinia</i>	393	<i>Sorbus</i>	313	<i>Triphora</i>	1420
<i>Rosa</i>	286	<i>Sparganium</i>	1512	<i>Tripsacum</i>	1576
<i>Rubus</i>	278	<i>Spartina</i>	1645	<i>Triticum</i>	1639
<i>Rudbeckia</i>	967	<i>Spermacoce</i>	1055	<i>Trollius</i>	69
<i>Ruellia</i>	1252	<i>Spergula</i>	633	<i>Troximon</i>	808
<i>Rumex</i>	715	<i>Spigelia</i>	1123	<i>Tullia</i>	1308
<i>Sabbatia</i>	1121	<i>Spiraea</i>	292	<i>Tussilago</i>	1944
<i>Sagina</i>	632	<i>Spiranthes</i>	1413	<i>Typha</i>	1510
<i>Sagittaria</i>	1391	<i>Stachys</i>	1319	<i>Udora</i>	1394
<i>Salix</i>	475	<i>Stanleya</i>	125	<i>Ulmus</i>	436
<i>Salvia</i>	1340	<i>Staphylea</i>	539	<i>Uniola</i>	1623
<i>Sambucus</i>	1073	<i>Starkea</i>	950	<i>Uraspermum</i>	29
<i>Samolus</i>	1173	<i>Stellaria</i>	636	<i>Urtica</i>	424
<i>Sanguinaria</i>	85	<i>Sticta</i>	1798	<i>Usnea</i>	1799
<i>Sanguisorba</i>	256	<i>Stipa</i>	1577	<i>Utricularia</i>	1174
<i>Sanicula</i>	7	<i>Streptopus</i>	1487	<i>Uvularia</i>	1489
<i>Saponaria</i>	630	<i>Strophostyles</i>	401	<i>Vaccinium</i>	753
<i>Sarothra</i>	182	<i>Stylosanthes</i>	373	<i>Valeriana</i>	785
<i>Sarracenia</i>	617	<i>Symphitum</i>	1351	<i>Valerianella</i>	786
<i>Saururus</i>	729	<i>Symphoria</i>	1063	<i>Vallisneria</i>	1395
<i>Saxifraga</i>	183	<i>Symplocarpus</i>	1518	<i>Veratrum</i>	1452
<i>Schollera</i>	1457	<i>Synandra</i>	1318	<i>Verbascum</i>	1247
<i>Schrankia</i>	415	<i>Sysimbrium</i>	122	<i>Verbena</i>	1259
<i>Scirpus</i>	1674	<i>Talinum</i>	658	<i>Verbesina</i>	1003
<i>Scolopendrium</i>	1755	<i>Tanacetum</i>	1028	<i>Vernonia</i>	832
<i>Scrophularia</i>	1193	<i>Taxus</i>	1379	<i>Veronica</i>	1183
<i>Scutellaria</i>	1330	<i>Teucrium</i>	1291	<i>Viburnum</i>	1064
<i>Sedum</i>	660	<i>Thalictrum</i>	44	<i>Vicia</i>	407
<i>Senecio</i>	945	<i>Thapsia</i>	19	<i>Viola</i>	588
<i>Seseli</i>	33	<i>Thermia</i>	386	<i>Virgilia</i>	392
<i>Sesleria</i>	1630	<i>Thesium</i>	254	<i>Viscum</i>	1085
<i>Setaria</i>	1563	<i>Thlaspi</i>	116	<i>Vitis</i>	552
<i>Seymeria</i>	1221	<i>Thymus</i>	1257	<i>Wistaria</i>	403
<i>Shepherdia</i>	246	<i>Tiarella</i>	192	<i>Xanthium</i>	1020
<i>Sibbaldia</i>	285	<i>Tilia</i>	161	<i>Xanthoriza</i>	181
<i>Sicyos</i>	775	<i>Tofieldia</i>	1450	<i>Xanthoxylum</i>	565
<i>Sida</i>	151	<i>Tradescantia</i>	1398	<i>Xyris</i>	1400
<i>Silene</i>	623	<i>Tragia</i>	528	<i>Yucca</i>	1506
<i>Silphium</i>	1006	<i>Trichodium</i>	1549	<i>Zapania</i>	1269
<i>Sinapis</i>	127	<i>Tricophorum</i>	1687	<i>Zea</i>	1660
<i>Sisyrinchium</i>	1409	<i>Trichophyllum</i>	981	<i>Zigadenus</i>	1454
<i>Sium</i>	12	<i>Trichostemma</i>	1293	<i>Zinnia</i>	851
<i>Smilax</i>	1470	<i>Tricuspis</i>	1629	<i>Zizania</i>	1654
<i>Solanum</i>	1229	<i>Trifolium</i>	335	<i>Zizia</i>	16

*M. W. ...*









